2045 66/B

THE

Mirror of Architecture:

OR THE

GROUND-RULES

OF THE

Art of Building,

Exactly laid down by

Vincent Scamozzi Master Builder of *Venice.*

Reviewed and Inlarged with the Addition of a Diagonal Scale, being very useful for dividing the Author his given parts into Minutes, whereby the principal Points of Architecture are easily and plainly demonstrated for the benefit of all lovers and *Ingenious Practitioners* in the said *Art.*

By *Joachim Schuym* of *Amsterdam.*

Translated out of *Dutch*, by *W. F.*

Hereunto is added the Description and use of an Ordinary Joynt-Rule fitted with Lines for the ready finding the Lengths and Angles of Rafters, and Hips and Collar-Beams in any square or bevelling Roof at any Pitch, and the ready drawing the Architrave, Frize, and Cornice in any Order. With other useful Conclusions by the said Rule.

By *John Browne.*

The Fourth Edition, with Addition of Stair-Cases and Chimney-Peces.

London, Printed for *Nath. Rolls*, at *Petty-Canons Hall*, on the *North* side of St. *Paul's* Church. 1693.

~~1608/3355.~~
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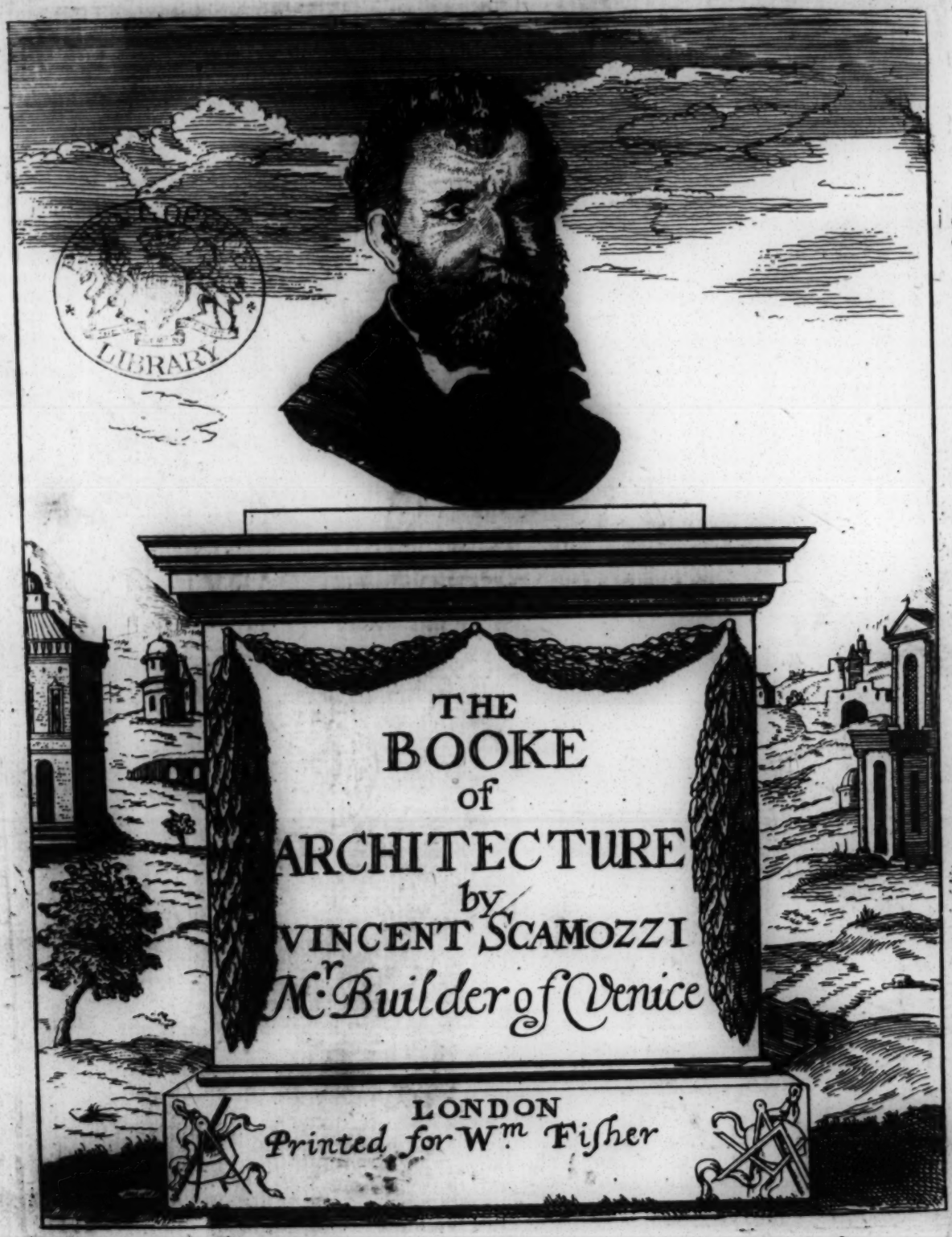
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THE
BOOKE
of
ARCHITECTURE
by
VINCENT SCAMOZZI
Mr. Builder of Venice
LONDON
Printed for Wm Fisher

2045 66/B

THE Mirror of Architecture: OR THE GROUND-RULES OF THE Art of Building,

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TO THE

LOVERS

OF

ARCHITECTURE.

Reader,

AS in all things Order is to be obſerved that we may avoid Confuſion, or elſe they will be a Chaos, as the Poets fancy; So eſpecially in this excellent Art of Architecture it is requiſite that every part and member have its right Order and due Proportion: And there having been many Maſters who have with great Care and Induſtry brought this Art to a

great Perfection, among whom this famous Maſter *Vincent Scamozzi*, Chief Builder of the Magnificent City of *Venice*, deſerves to be placed in the firſt and chiefeſt rank by the conſent of all Judicious Artiſts. Therefore for the benefit of our own Nation, and that it may be made moſt uſeful for all Artificers in Building, and Lovers and Practitioners in this moſt uſeful Art; who are or may be employed in Royal and Magnificent Structures. The larger Book is here reduced into a ſmaller Volume, and the Author his given Parts divided into Minutes; whereby the Principal Rules of Architecture are made plain to ordinary Capacities by *Joachym Schuym* an Ingenious Artiſt. And for your better underſtanding, take notice, that by Model is ſignified the Meaſure of the whole Diameter

of

of the Column: as for example: Let the Diameter be 18, 16, or 12 Inches, which ſhall be the Model divided into 60 Equal Parts or Minutes, (as you may ſee in the Diagonal Scale enſuing) by uſing which Meaſure all the Parts of the ſaid Column ſhall be Proportionable: And this dividing of the Column into 60 Equal Parts or Minutes ſhall be uſed to all the Columns. Alſo here is added the Deſcription and Uſe of an Ordinary Joynt-Rule fitted with Lines for the ready finding the Lengths and Angles of Rafters and Hips and Collar-Beams in any Square or Bevelling Roofs at any Pitch, and the ready drawing the Architrave, Frieze and Cornice in any Order, with other uſeful Concluſions by the ſaid Rule.

In this Edition, that the Book may be the more compleat, you have a Trea-

Treatise containing the Ground-Rules of Architecture, being the Substance of what was writ of it by the Learned and Judicious Sir *Henry Wotton* in his Elements of Architecture, with the Figures of the *Roman* and *Corinthian* Stately Capitals, with Stair-Cases and Chimney-Pieces.

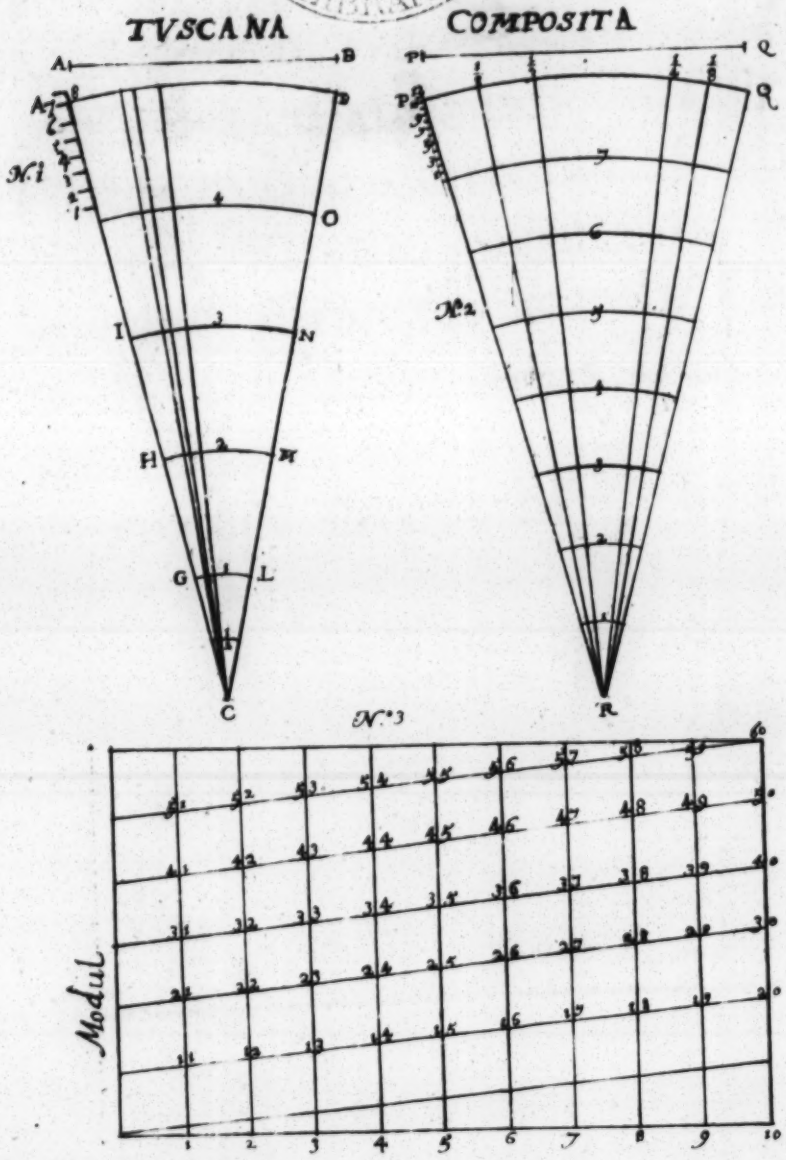
Accept favourably, and judge impartially.

Farewel.

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The Deſcription of the Scale, and its Uſe in dividing of the Parts in the Column eaſily found out, agreeing with the Meaſure of the Author.

No. I.

THE height of the uppermoſt Line A B is taken from the *Tuſcan* Cornice (in the ſixth Plate) and is divided into 4 $\frac{7}{8}$ parts: draw a Line ſtraight up ſo long as you will, as C A, and divide into 5 equal parts, then divide the uppermoſt fifth part into 8 parts, and take 7 of them, and ſetting one foot of the Compaſſes in the Point C, and the other foot to the uppermoſt ſeventh part, draw an Arch of a Circle from that ſeventh part ſo far as the Line A B may be ſet on it from A to B, and draw a Line ſloping from B to C, and draw every fifth part with the Compaſſes between the two Lines A C and B C; the undermoſt drawn Line G L is 1 part, H M 2 parts, I N 3 parts, K O 4 parts of the Line A B divided into 4 $\frac{7}{8}$ parts: then to divide the parts ſo, you muſt ſee what uſe you have thereof in your Cornice, and divide the Line A B into ſo many parts as there is occaſion, as in 3 parts: ſo draw a Line $\frac{1}{3}$ from the point C, and into 4 parts, and draw a Line $\frac{1}{4}$ from the point C, and then into 5, and draw a Line $\frac{1}{5}$ from the point C. Then to ſtrike out the ſmall members of the Cornice, ſet the Compaſſes from H to the Line $\frac{1}{5}$, the which will give $\frac{2}{5}$ parts of the Line A B, then follows $\frac{1}{6}$: therefore ſet your Compaſſes on F and the Line $\frac{1}{3}$, then have you the $\frac{1}{6}$ part, next follows the part 1: therefore ſet your Compaſſes from G to L, the which is 1 part: then ſet the Compaſſes on G and the Line $\frac{1}{5}$, the which is then $\frac{1}{5}$ parts, then ſet your Compaſſes on F and $\frac{1}{4}$, and add that to G L, and it makes together 1 $\frac{1}{8}$ parts, then follow two parts $\frac{1}{5}$, then ſet the Compaſſes from I to the Line $\frac{1}{4}$, the which is $\frac{3}{4}$ parts, then on F and $\frac{1}{5}$, which is $\frac{1}{6}$ parts, then on H and $\frac{1}{3}$, which

is

is $\frac{2}{3}$, and on G and the Line $\frac{1}{4}$, which is $\frac{1}{4}$, and do the like with every member of the Cornice and the Base, as you may see plainly in the sixth Figure.

No. II.

The Slope Line P Q R is upon the Cornice of Composita, where is to be divided into 7 and $\frac{11}{12}$ parts, and one half twelfth part $7\frac{11}{12} : \frac{1}{2}$ and may be drawn after the same manner, as with the Dorick, Ionick and Corinthian, as you see plainly in the 24th Figure.

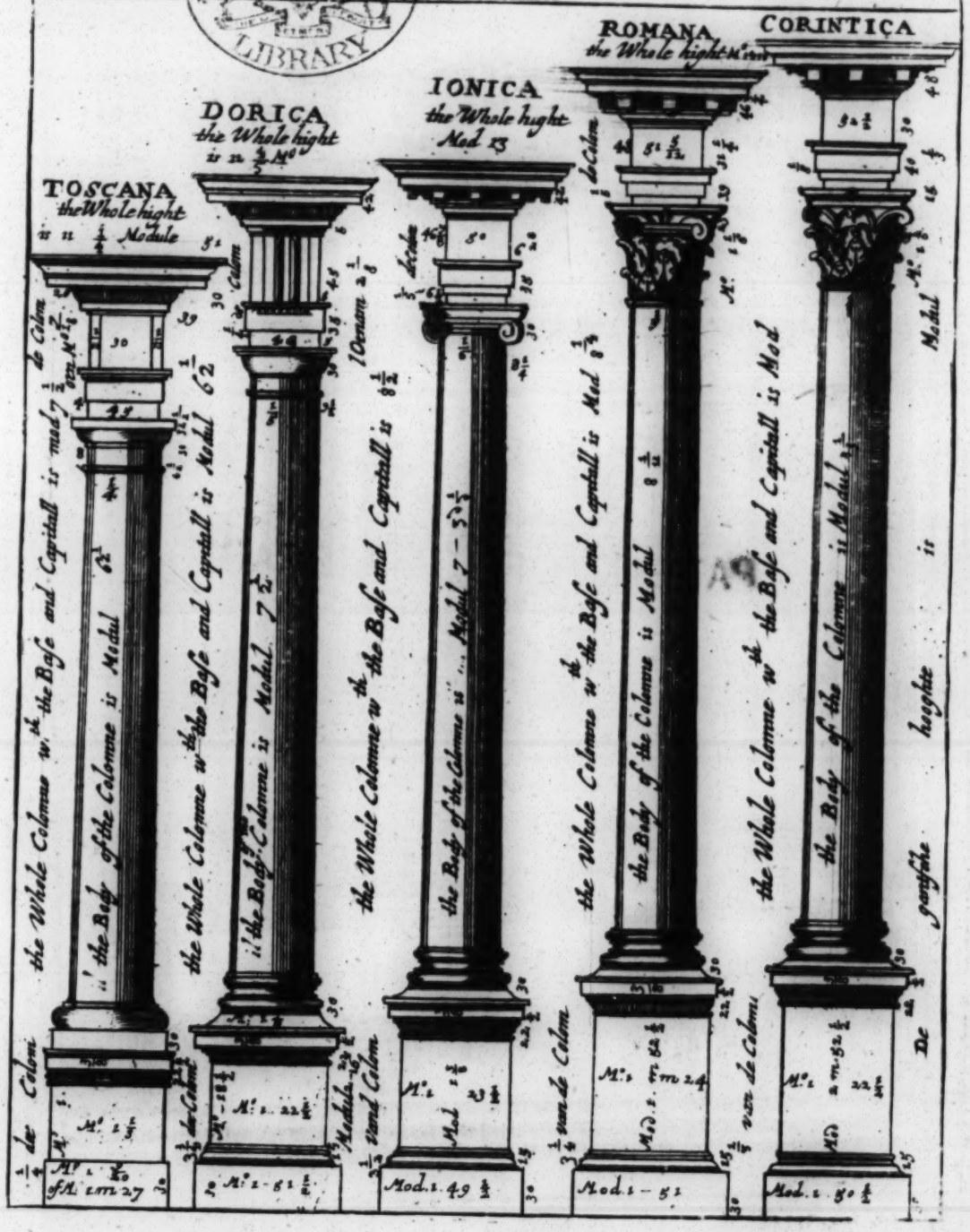
No. III.

The Author gives well the dividing the members in general of the Ornament, Impost and Arch with the Base and Cimacia, but not so plain in particular how much every member must be. There have been several Lovers of the Art have endeavoured to find out the dividing of the minutes. So I thought necessary to put the minutes to it, and of the same to make a Scale. And for to make the Scale right, divide your Model into 6 parts on one side, and divide the other side into 10 parts, and so draw your Lines Diagonal ways, after the manner of the draught of the Diagonal Scale in the next leaf ensuing. So is your Scale made by which all the members are easily and rightly divided.

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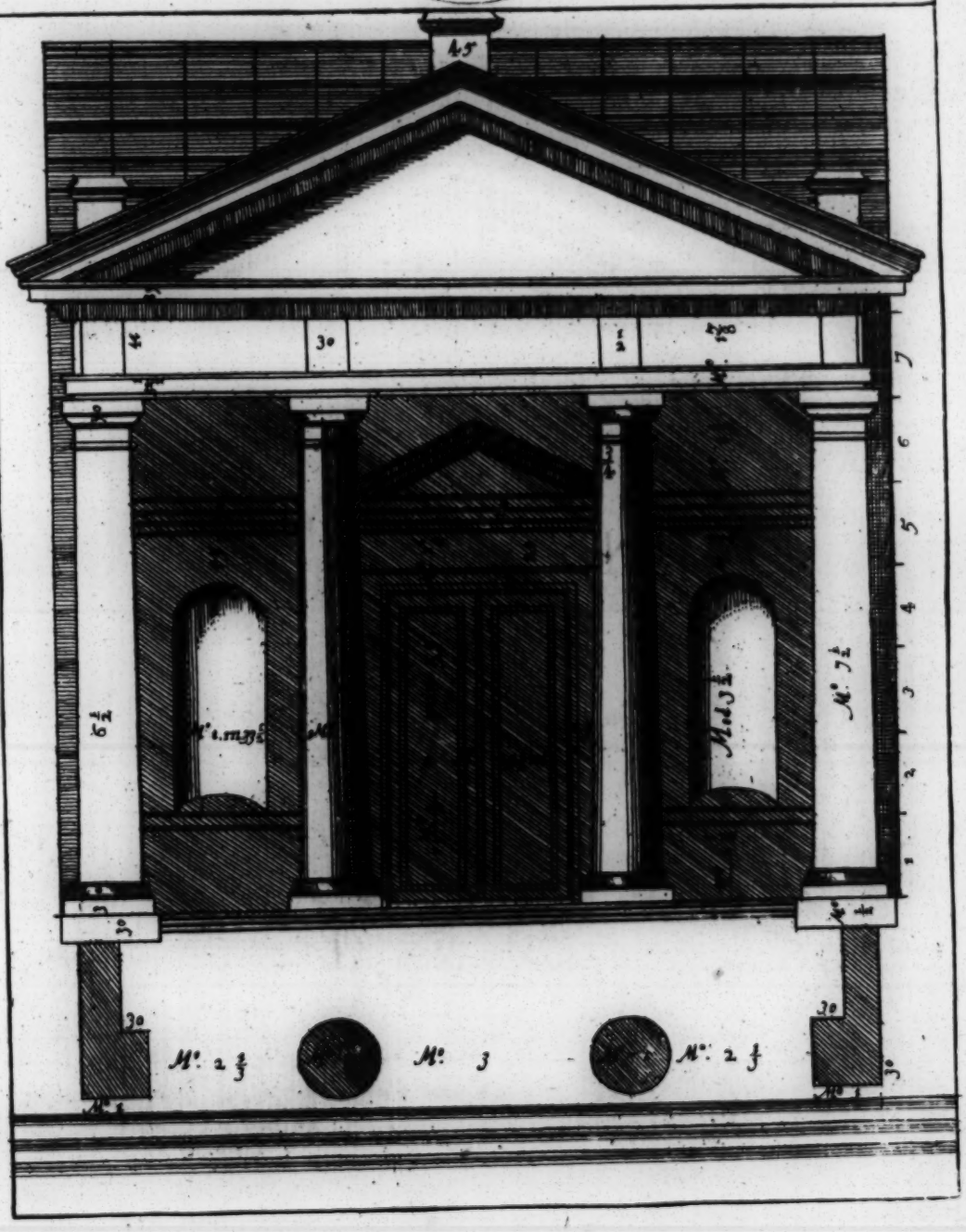
THE ORDER OF THE FIVE COLLOMNES



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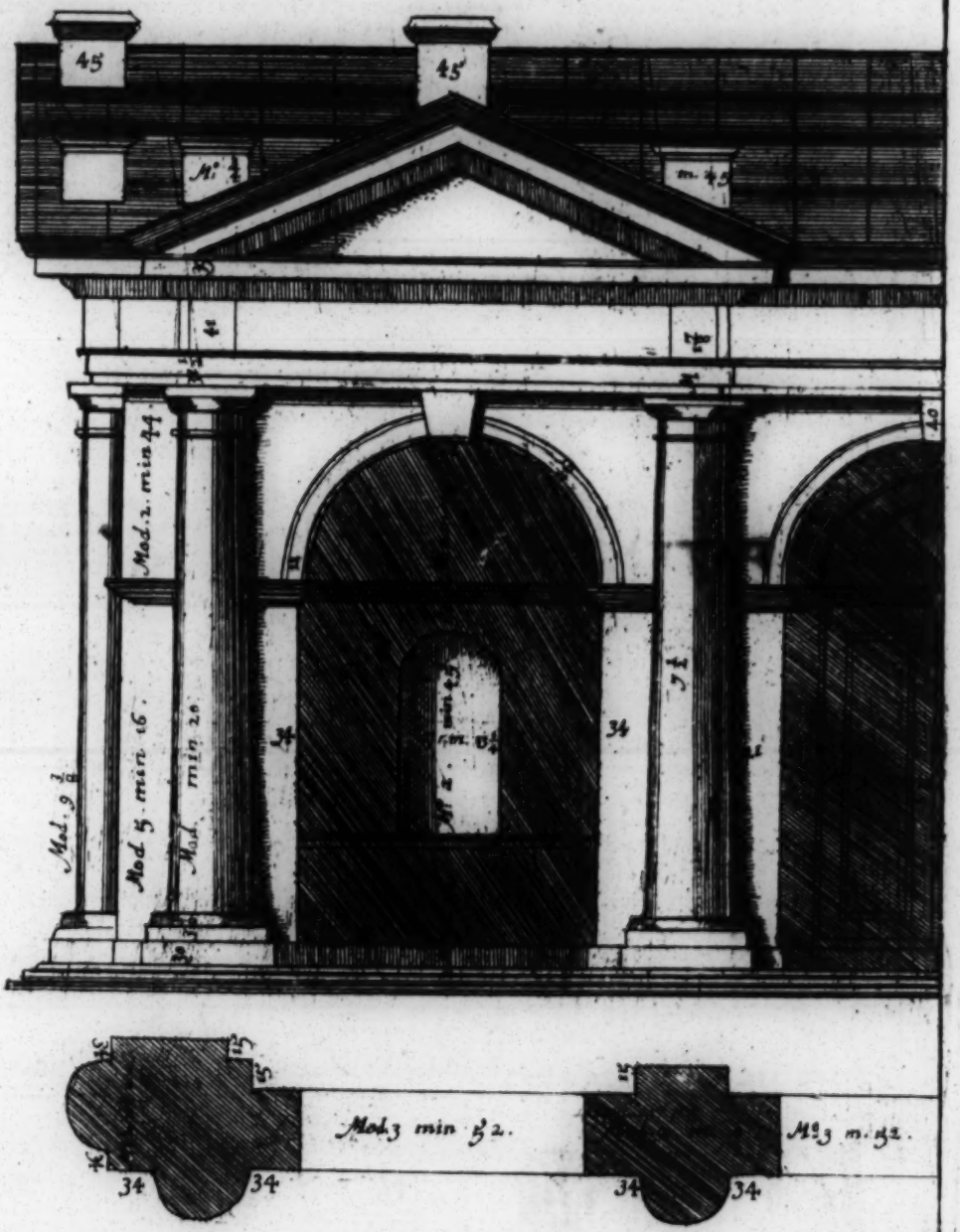
The TUSCAN Colomne



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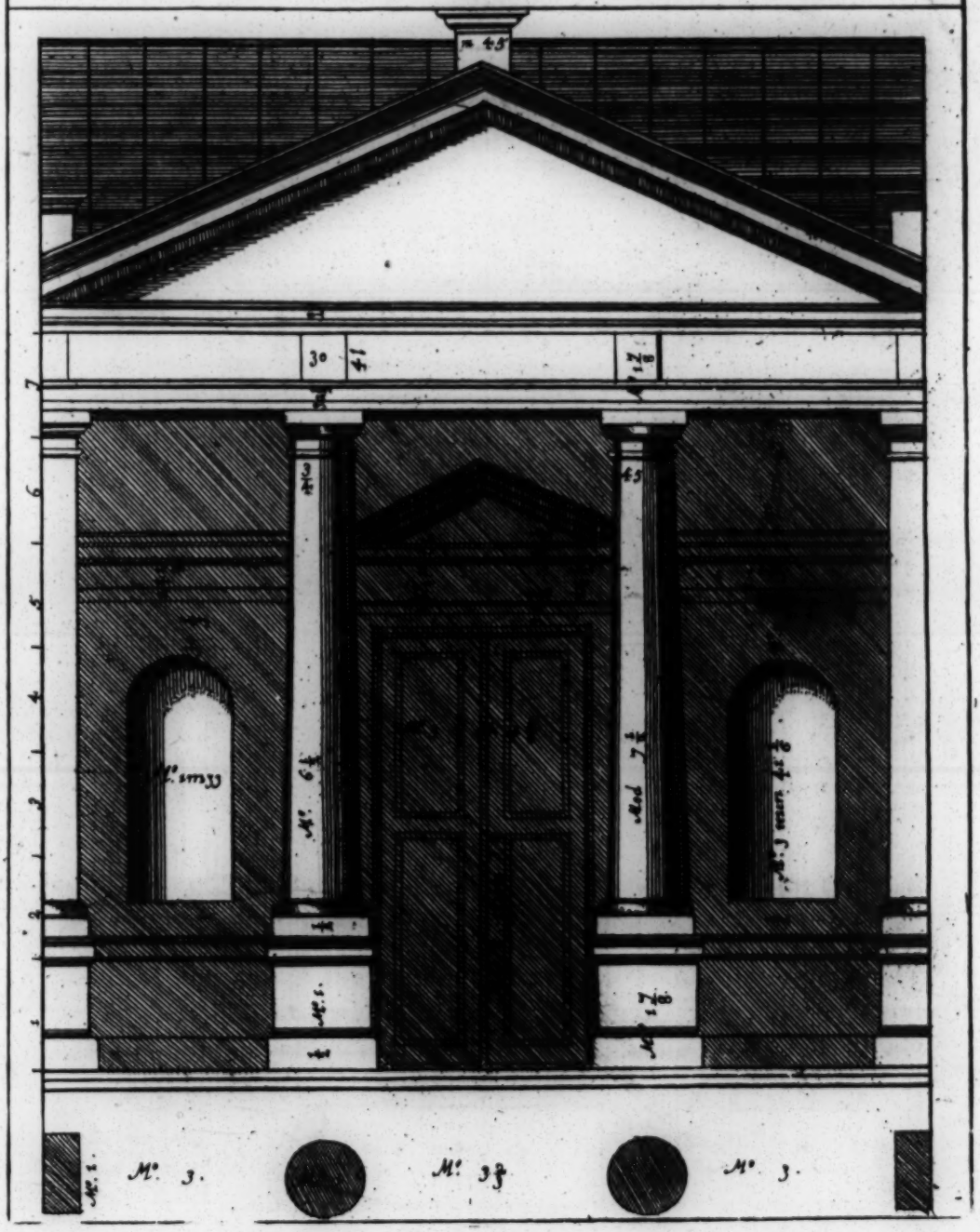
The TUSCAN Arch

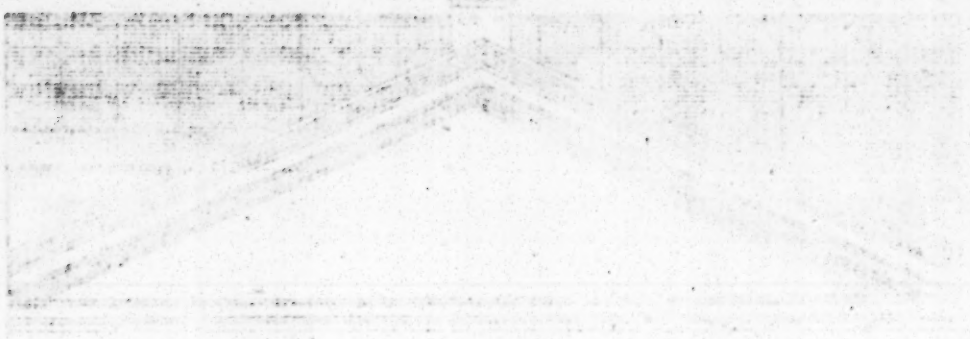


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The TUSCAN Colomne with ye Pedestall

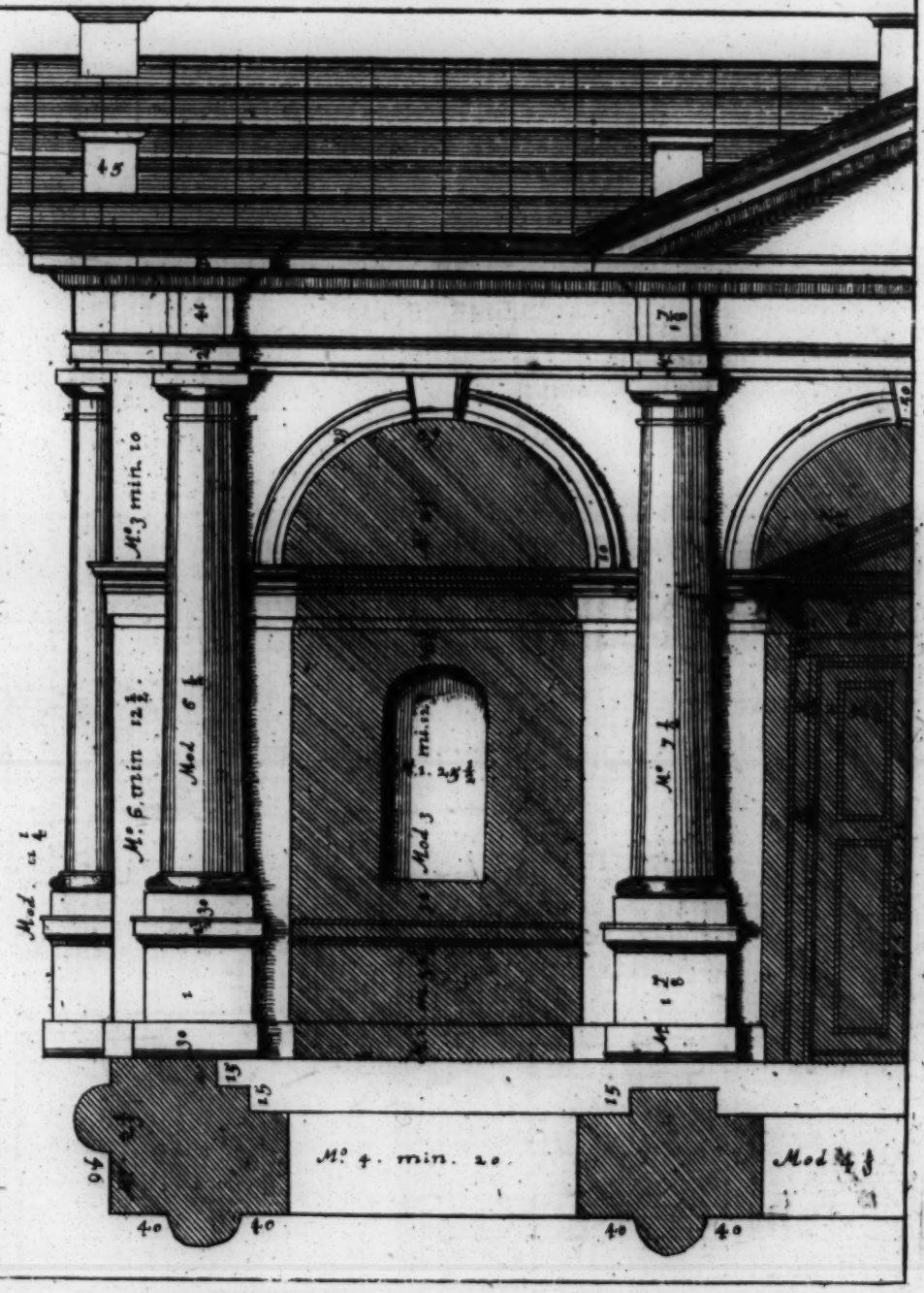




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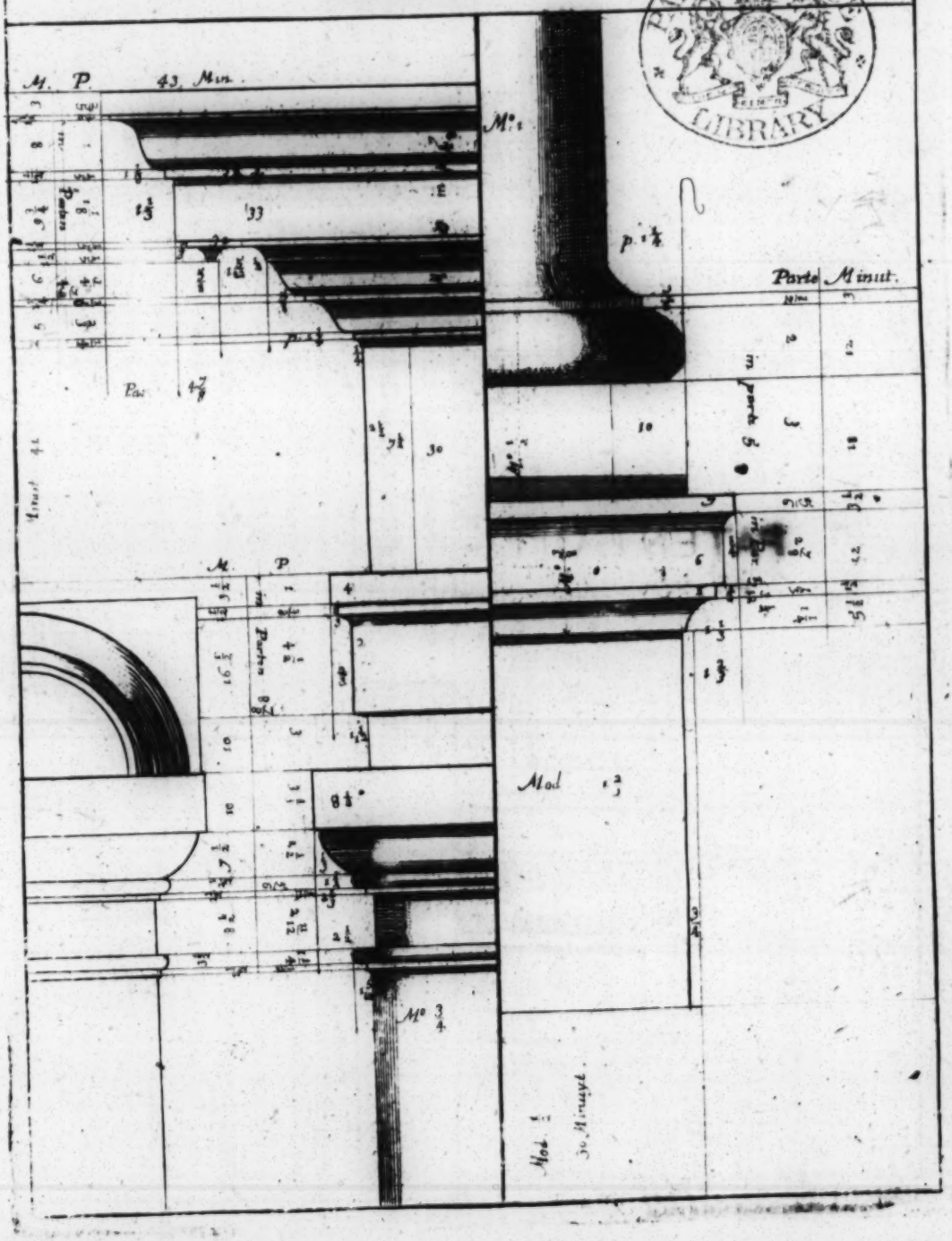
The TUSCAN Artch w.th y.e Pedestall



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The Pedestall Base and Ornament of the TUSCAN

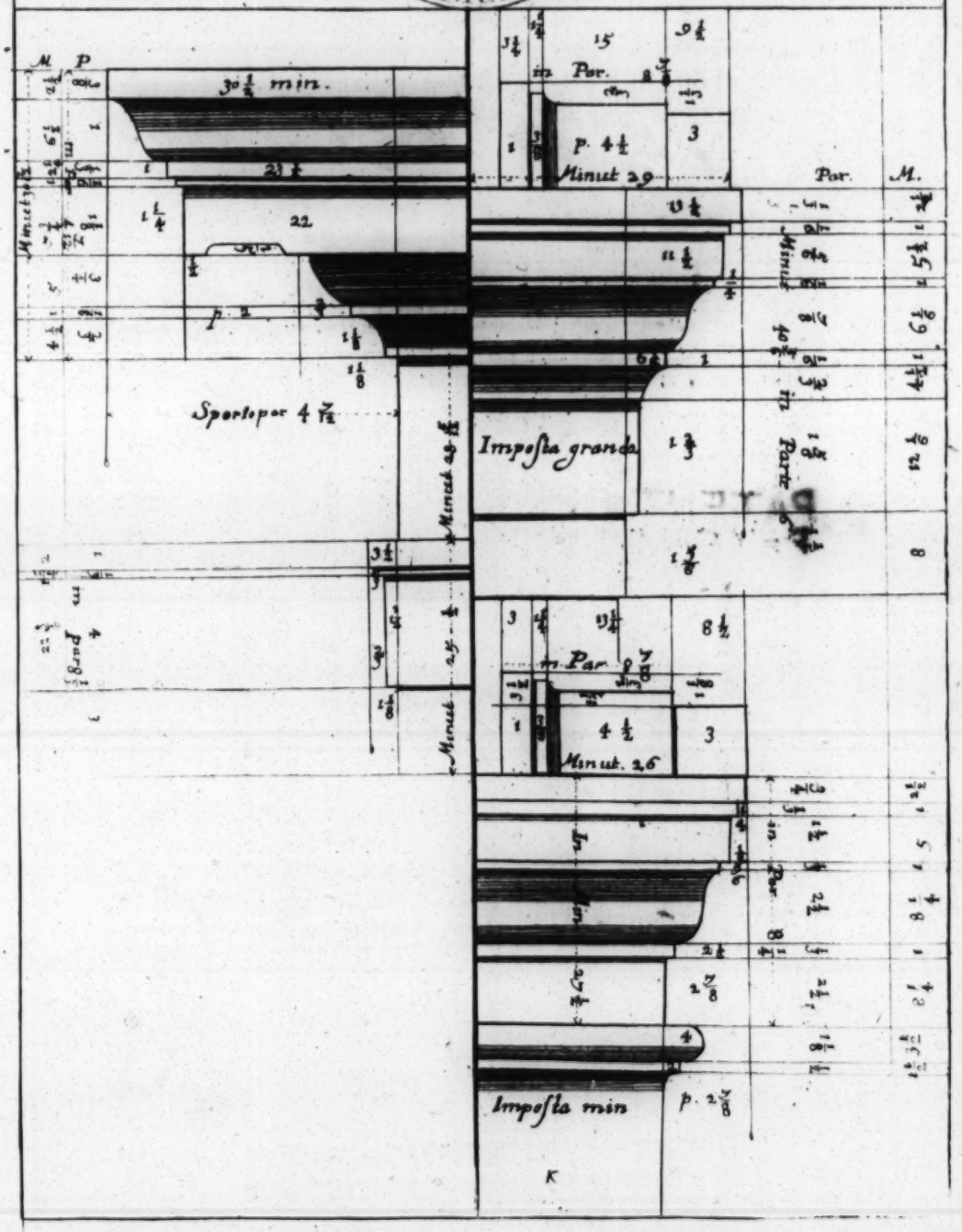
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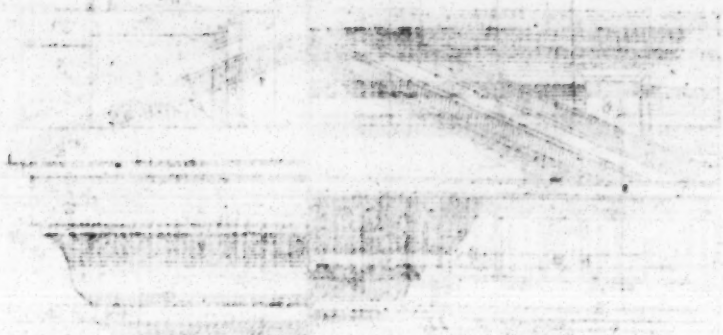


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Imposts and Ornament of y.e TUSCAN

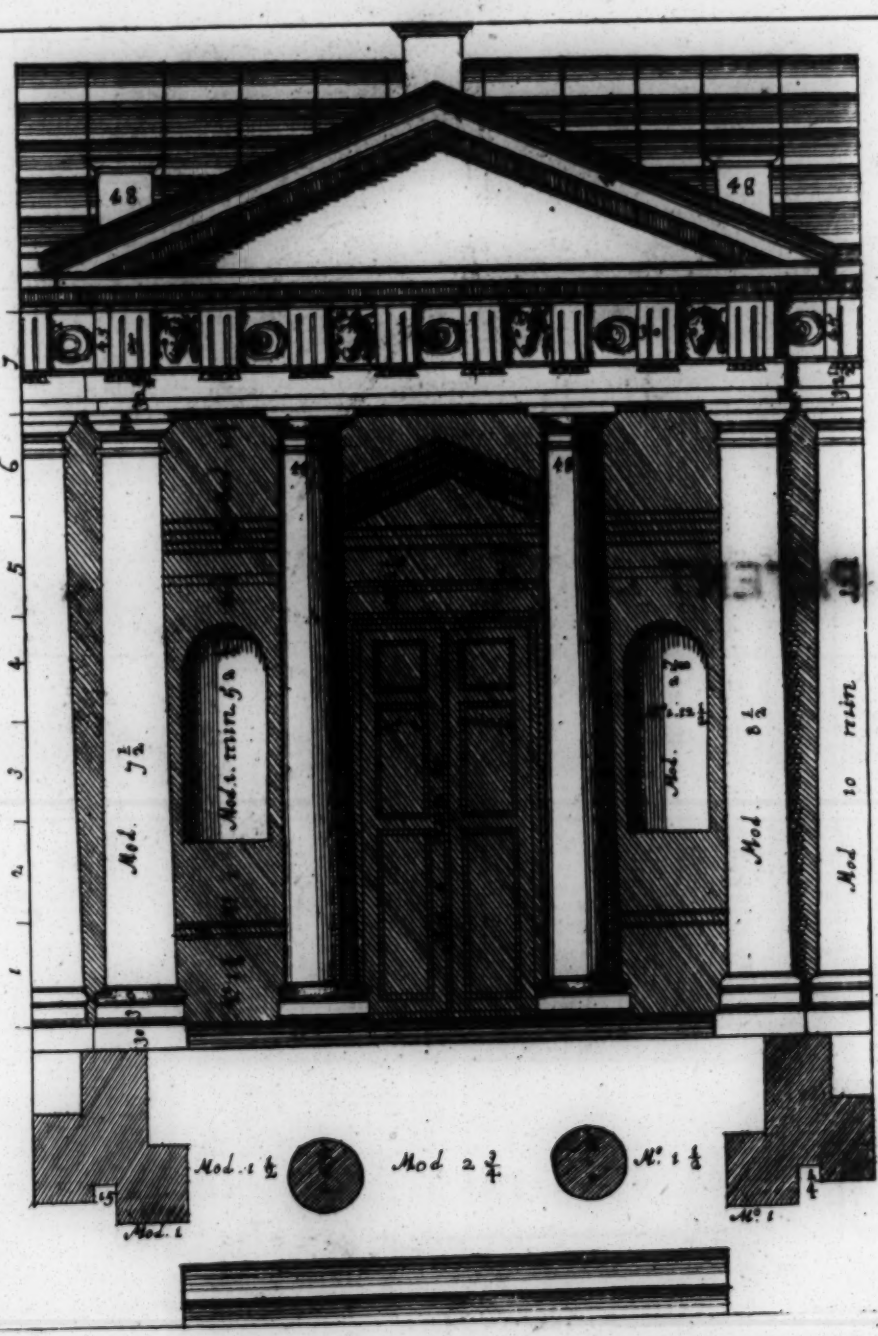




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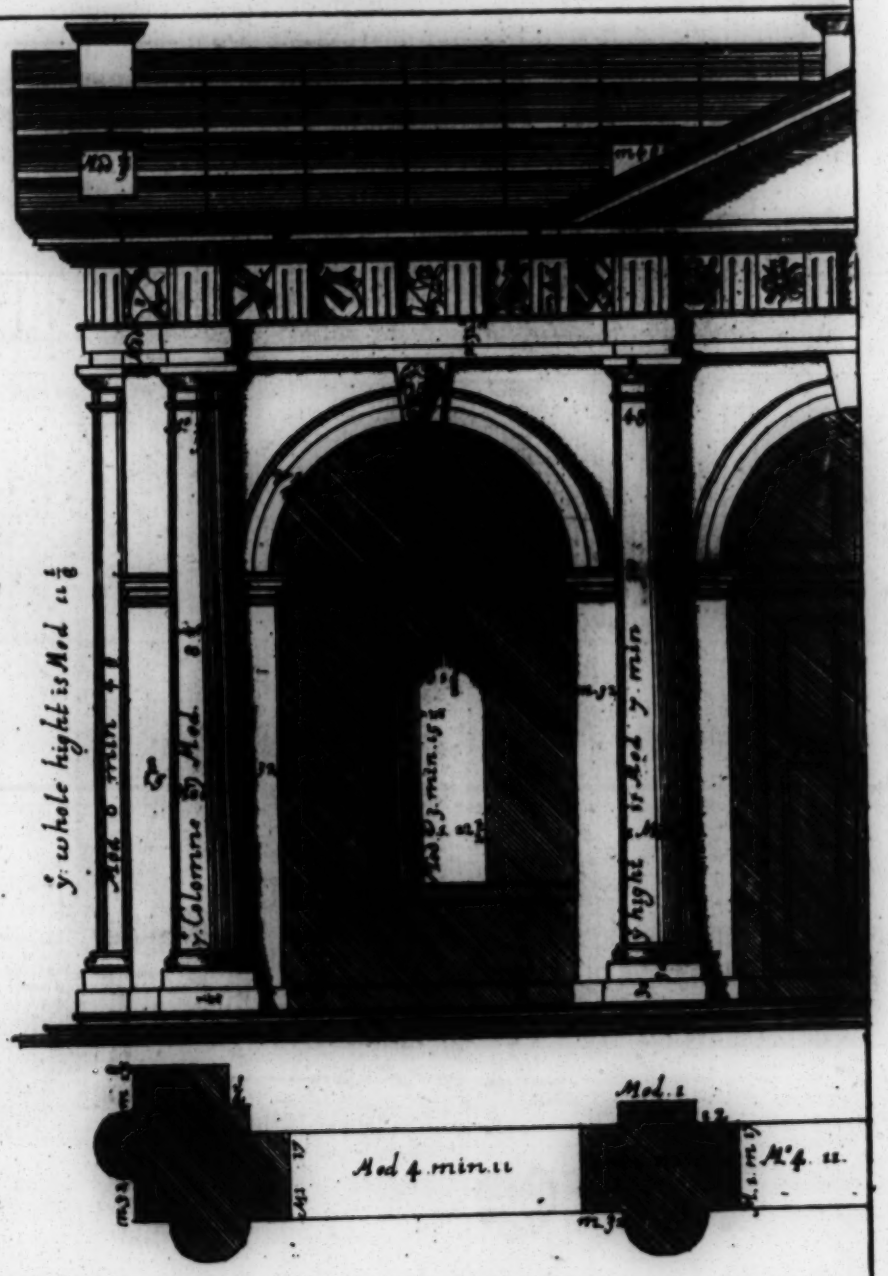
The DORICK Colomne



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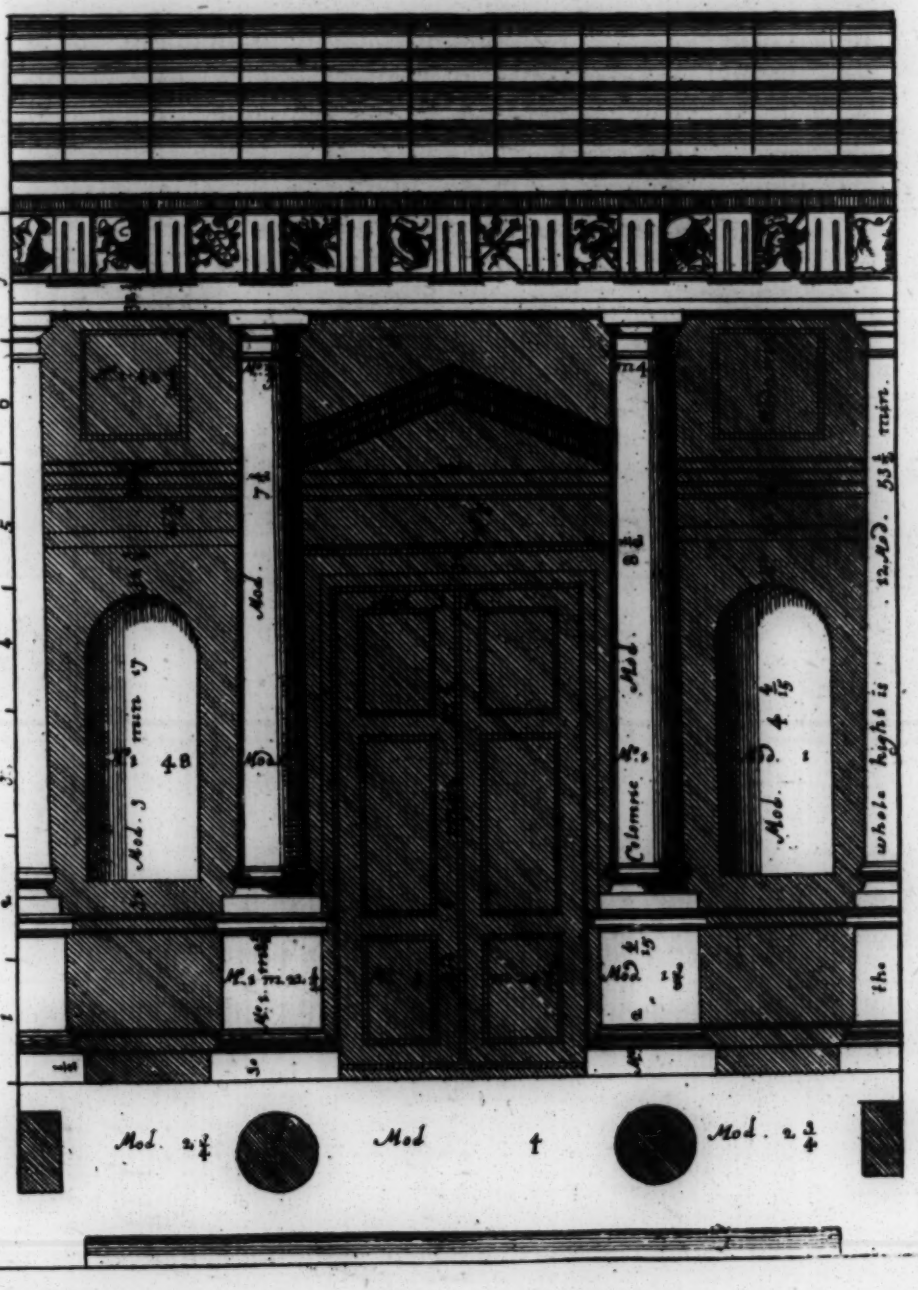
The DORICK Arch



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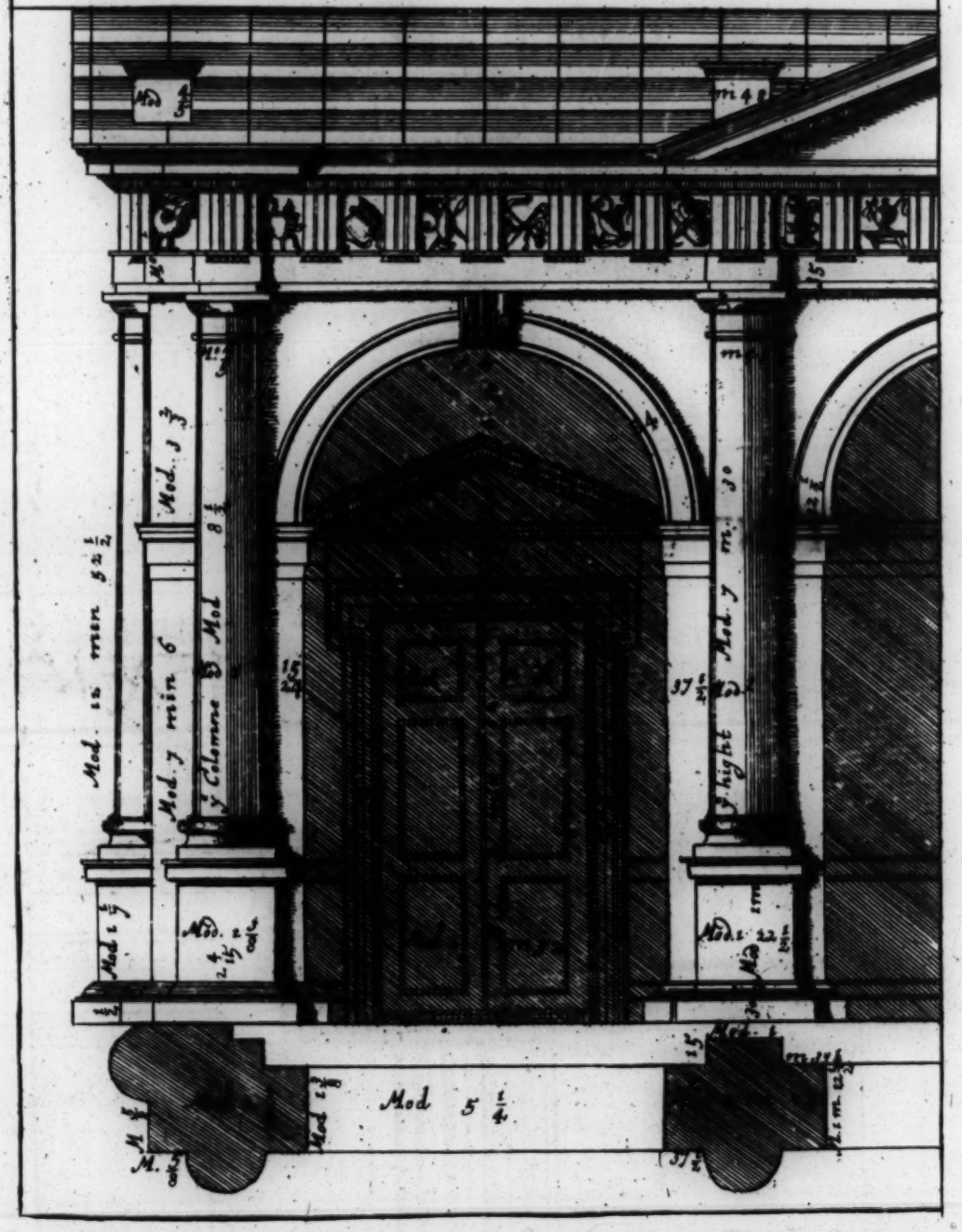
The DORICK Colomne with the Pedestall

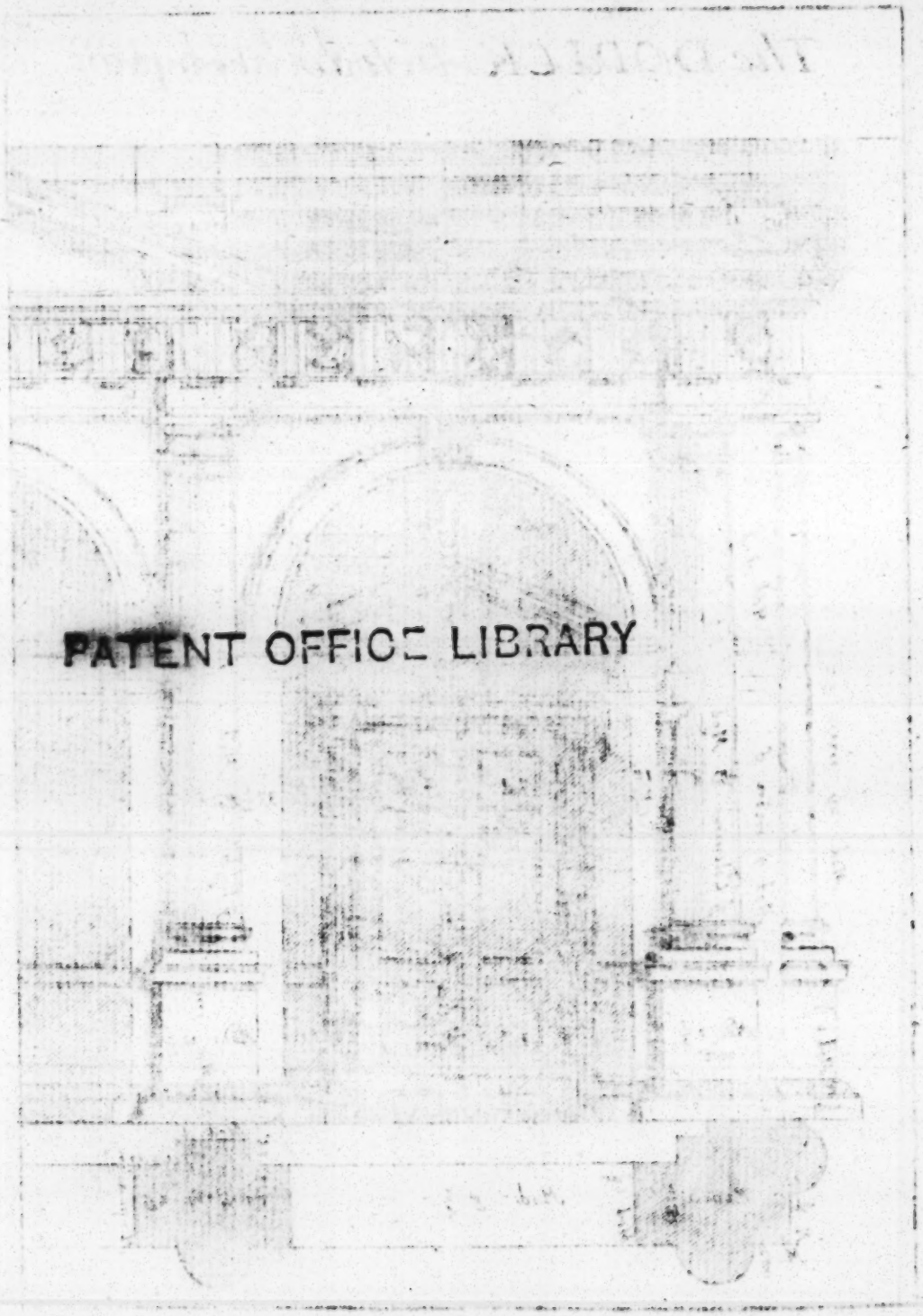


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The DORICK Arch w.th y.e Pedestall

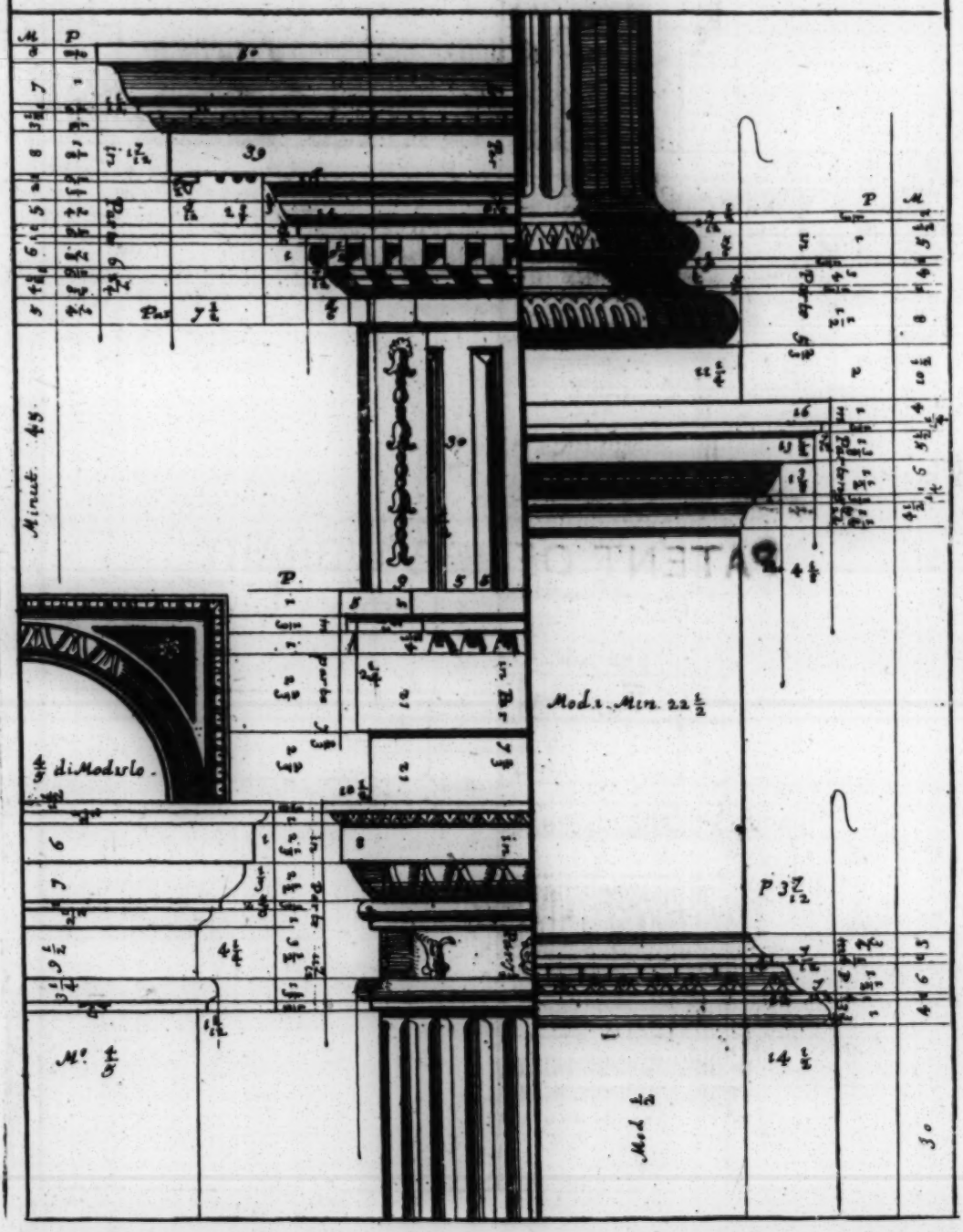


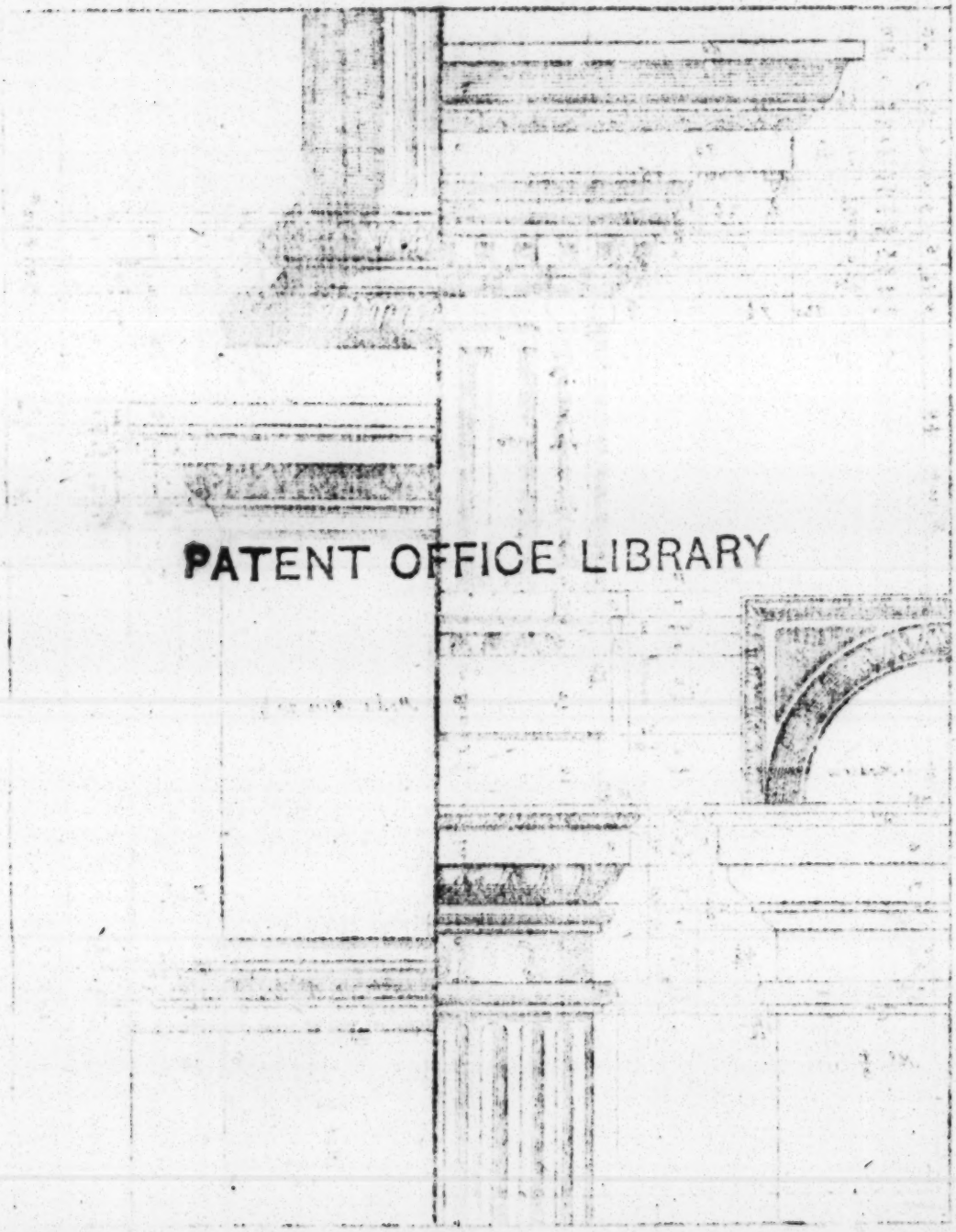


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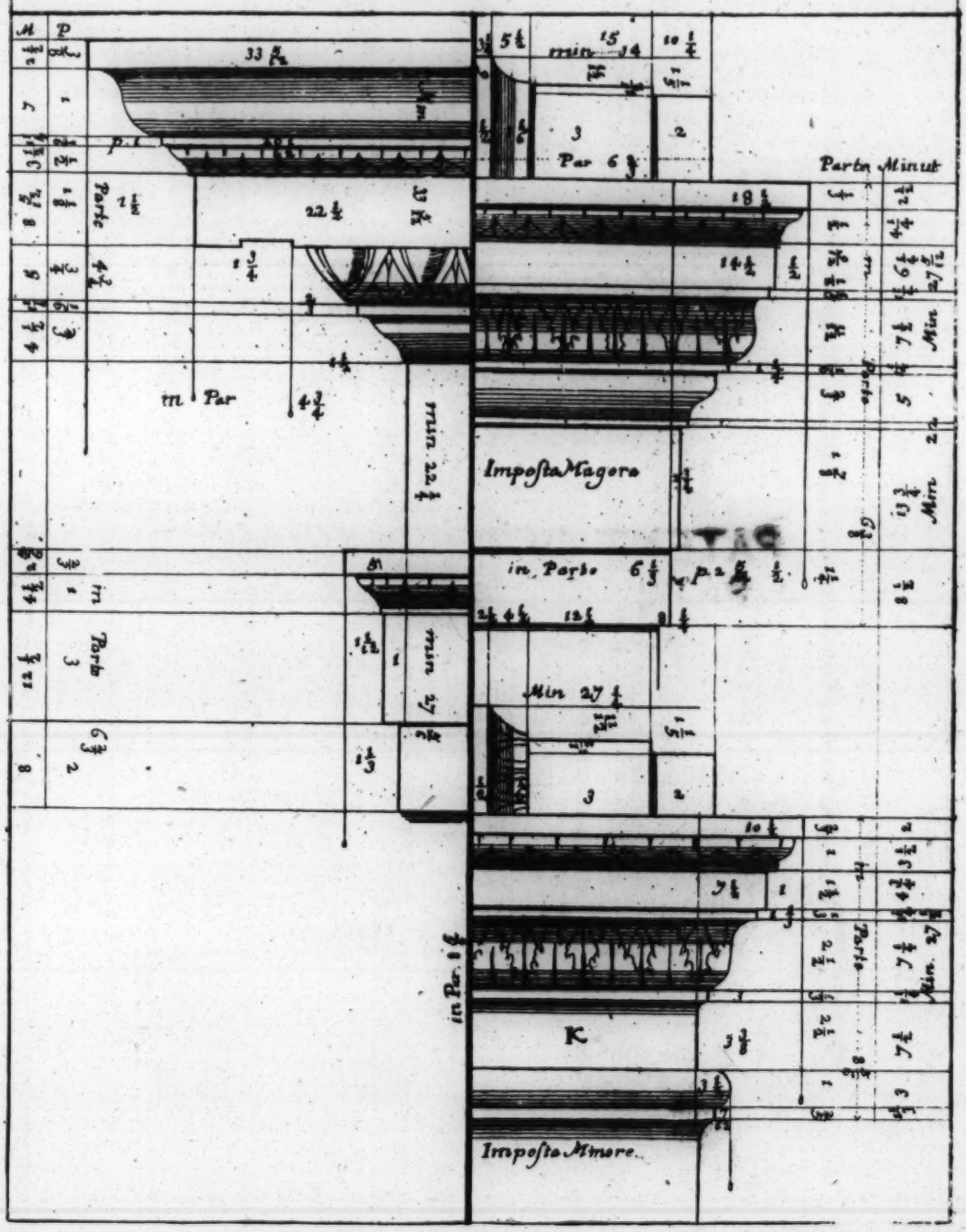




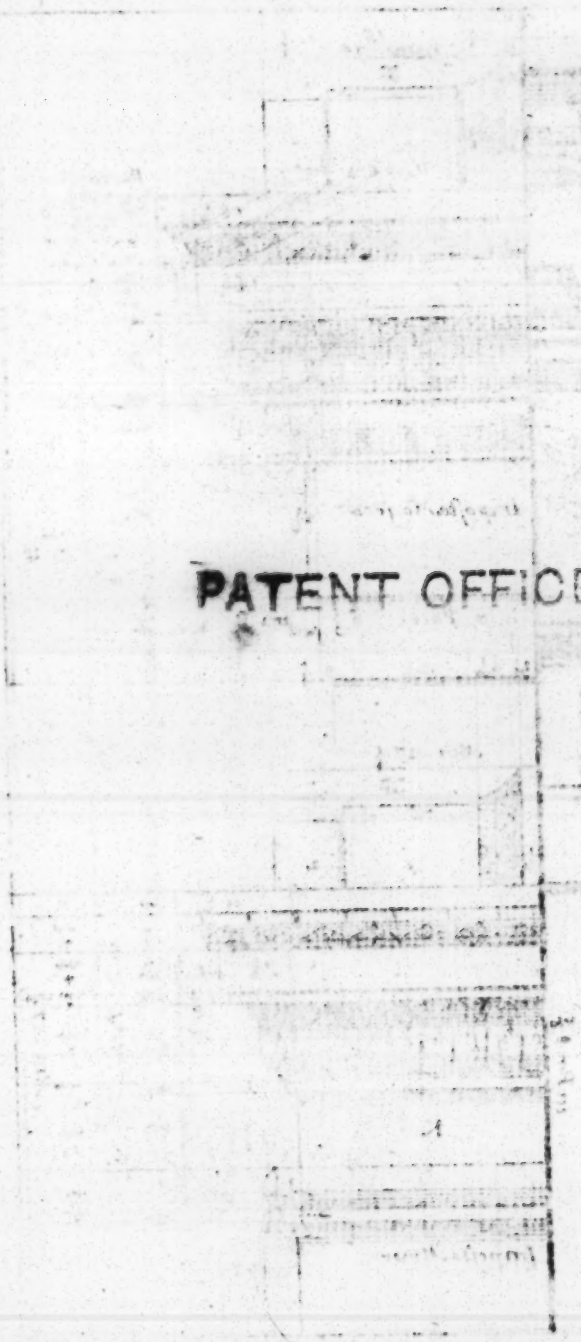
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Imposts and Ornament of ye DORICK order

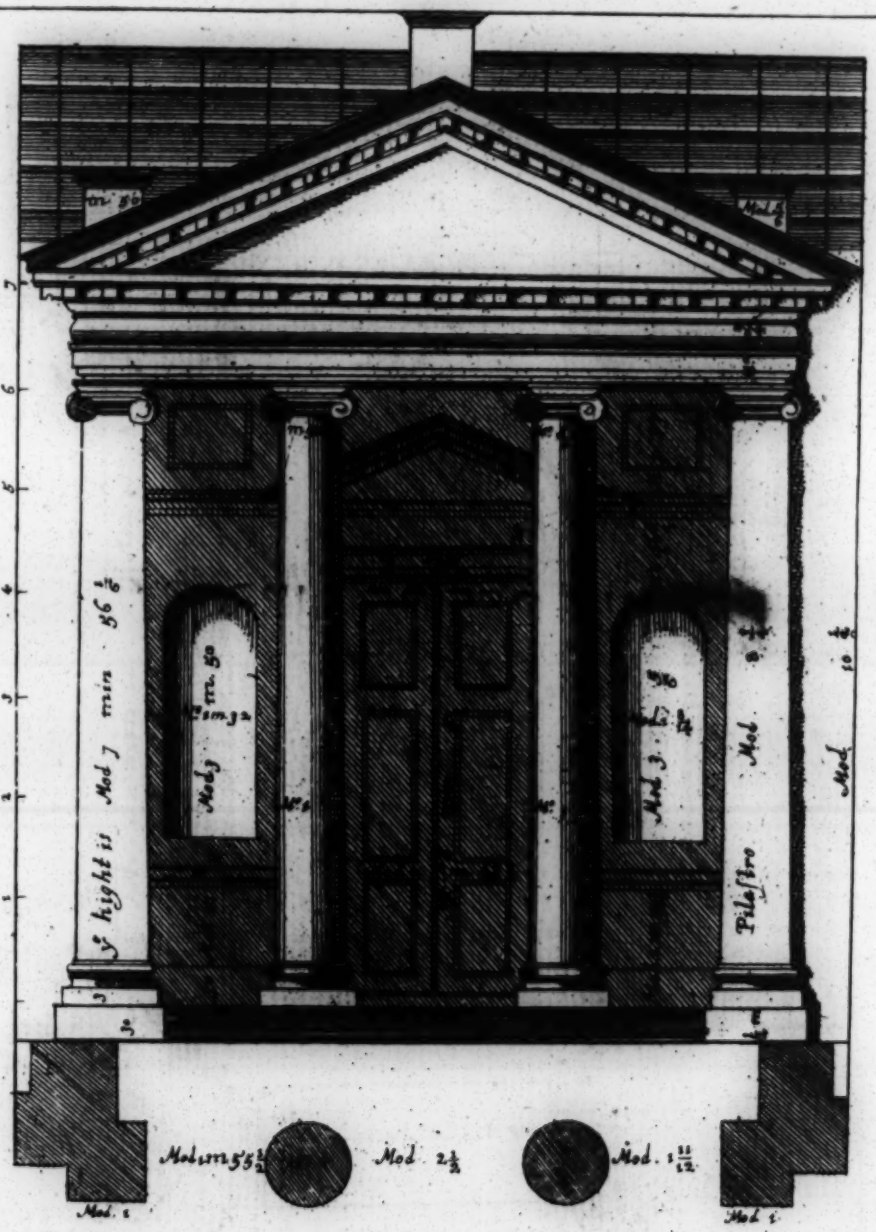


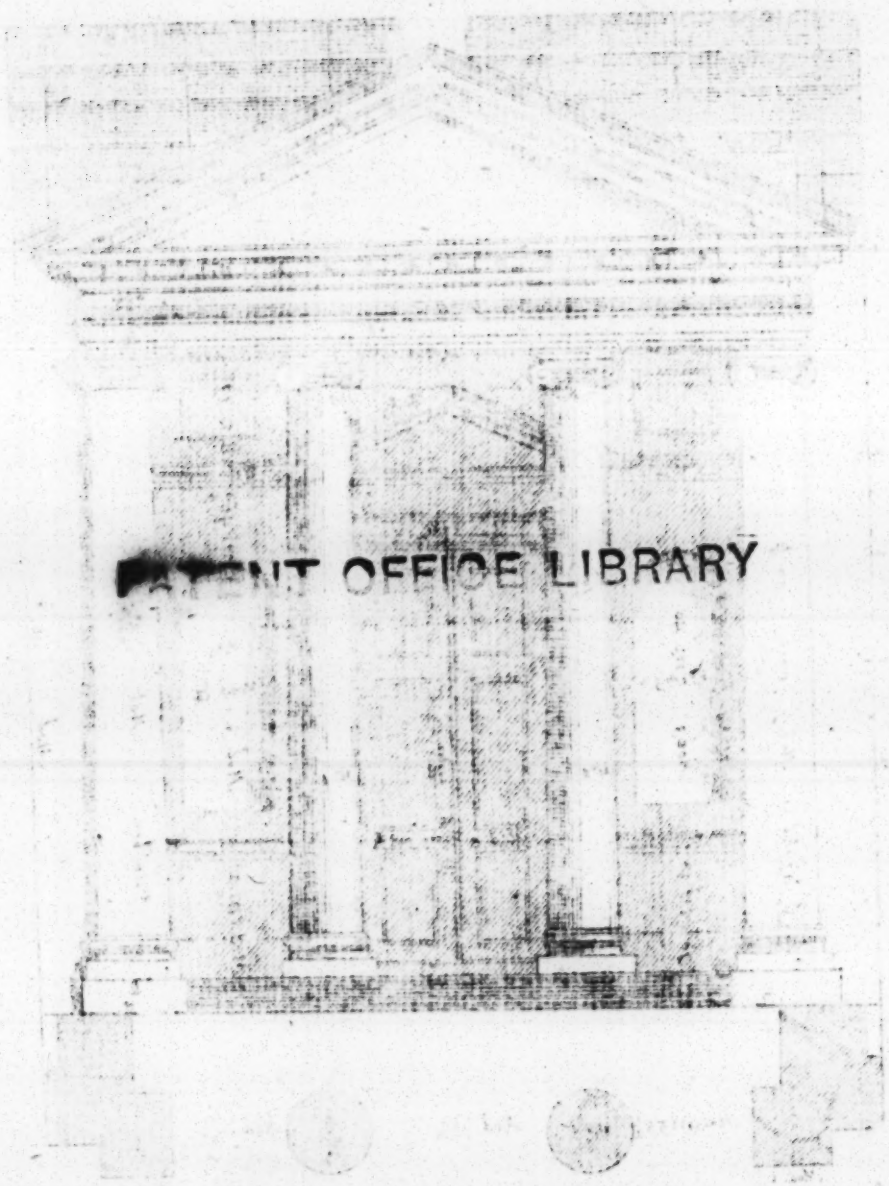
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The IONICK Colomne

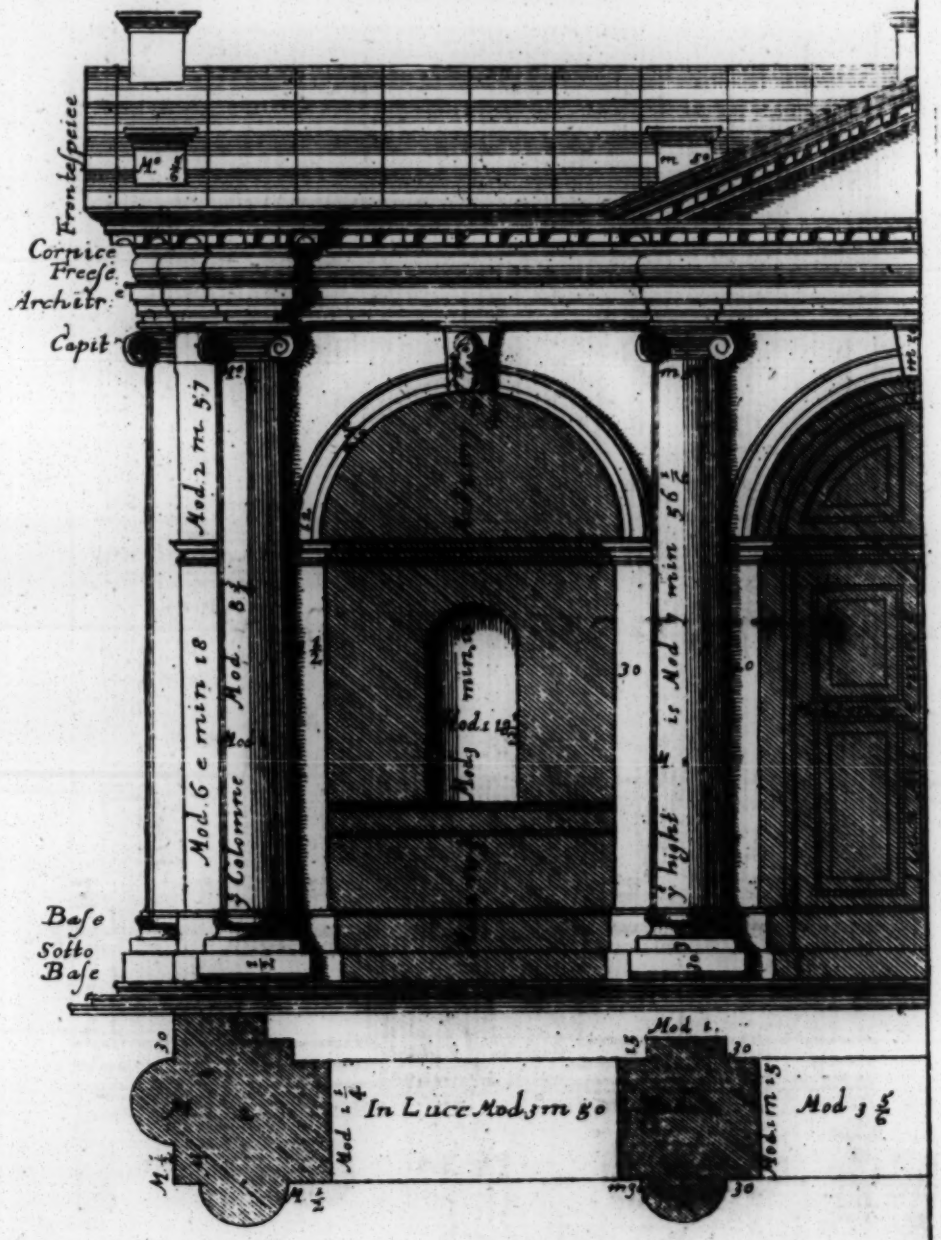




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The IONICK Arch



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The IONICK Colomne w.th the Pedestall.

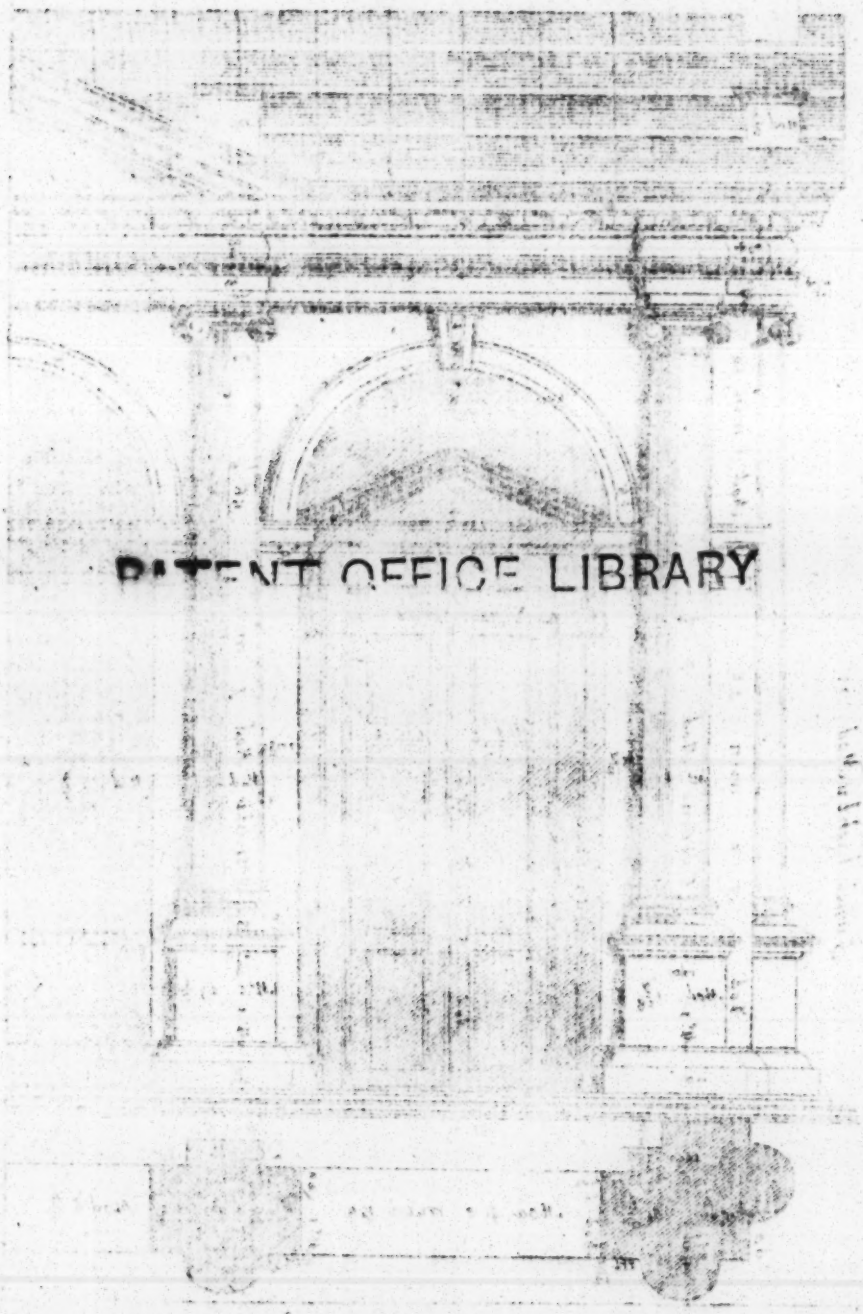


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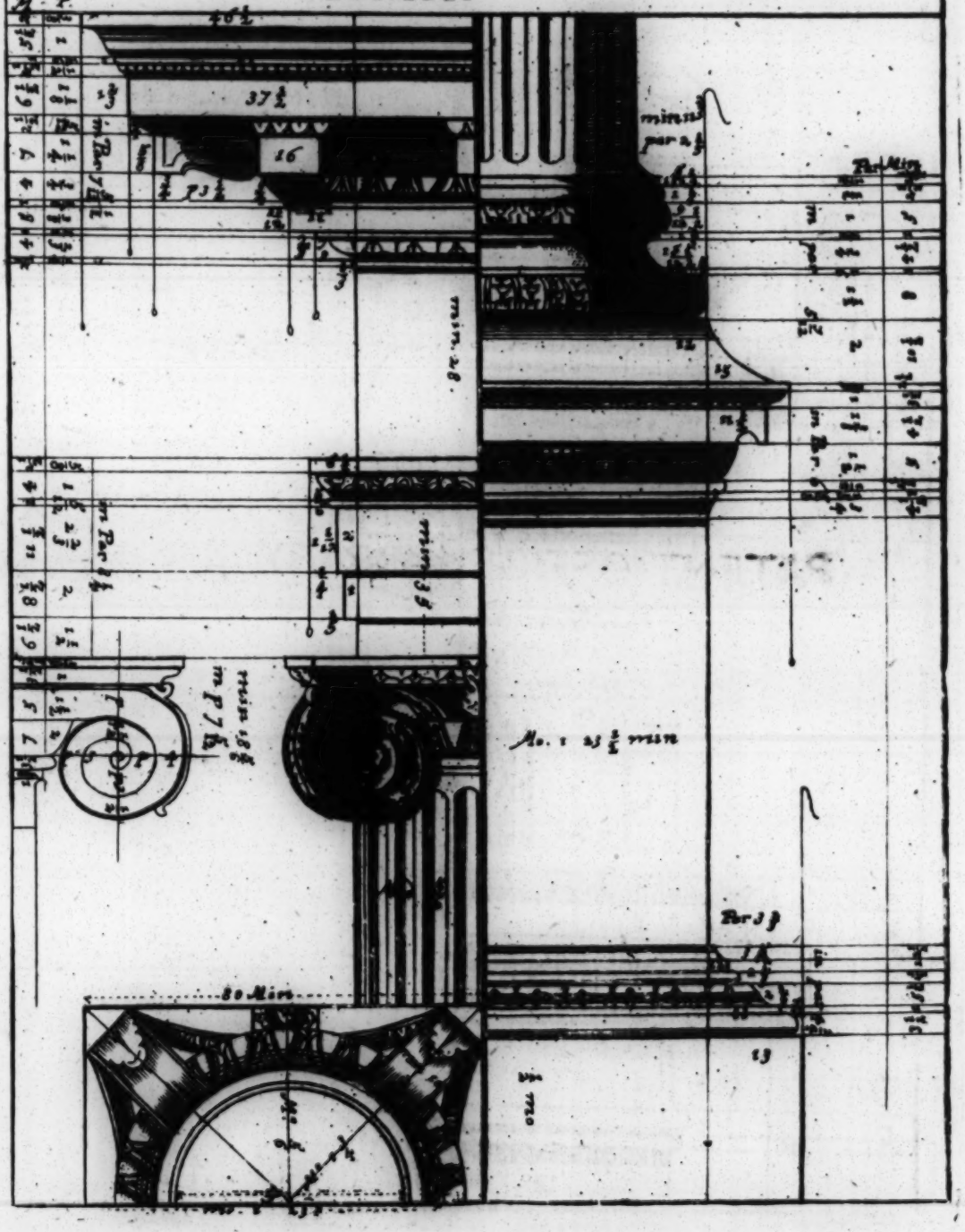


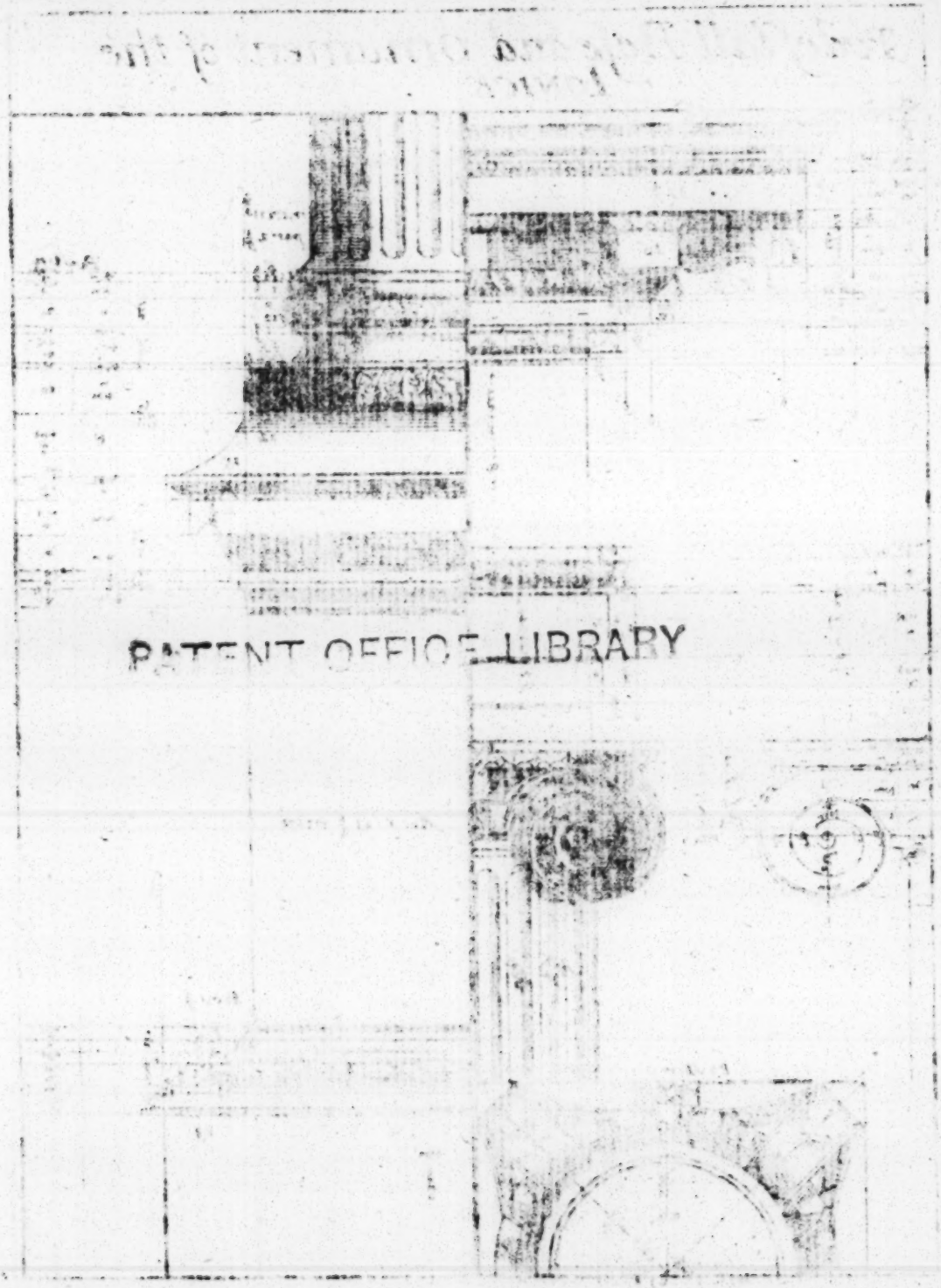


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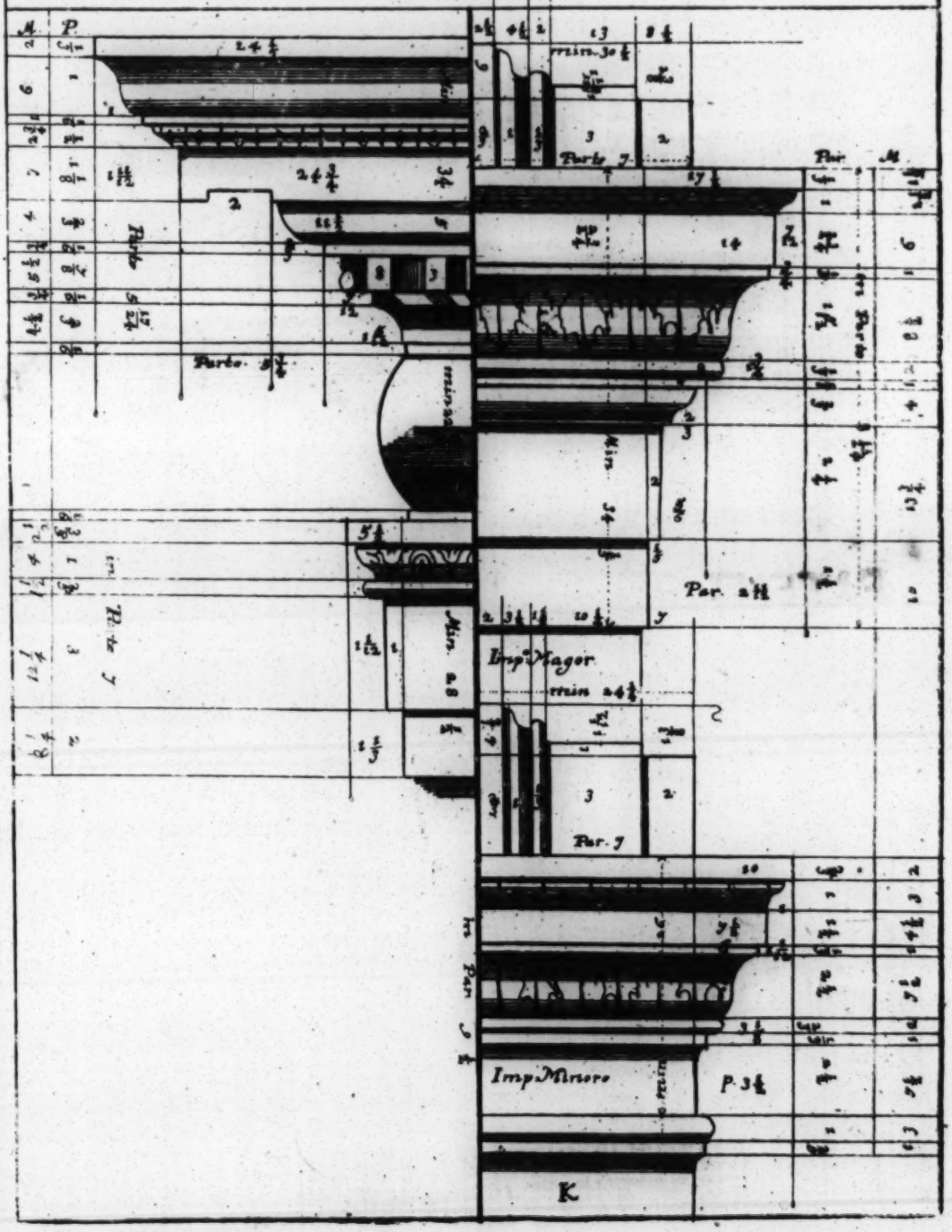
Pedestall Base and Ornament of the IONICK




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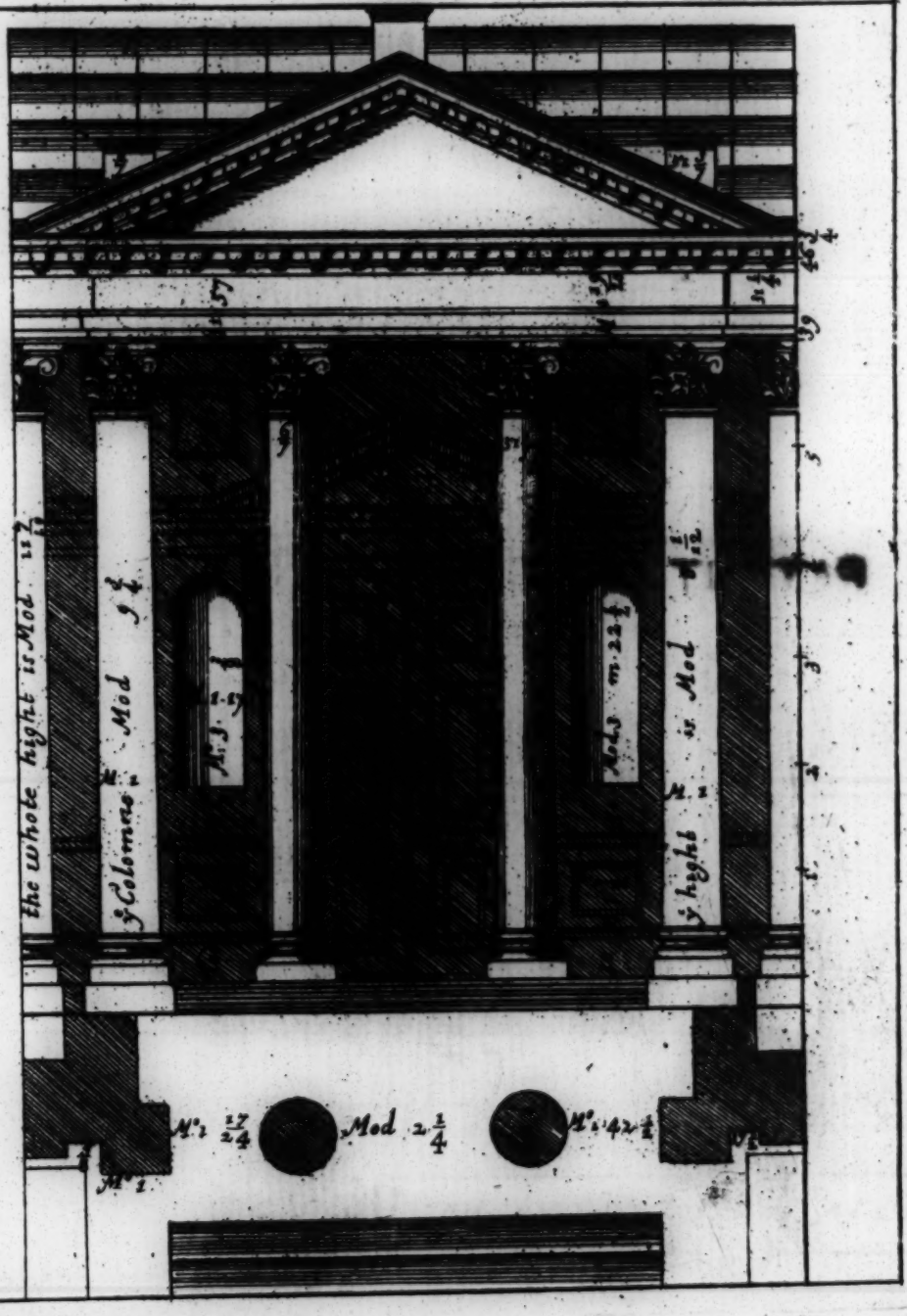
Impoſts and Ornament of ye IONICK order



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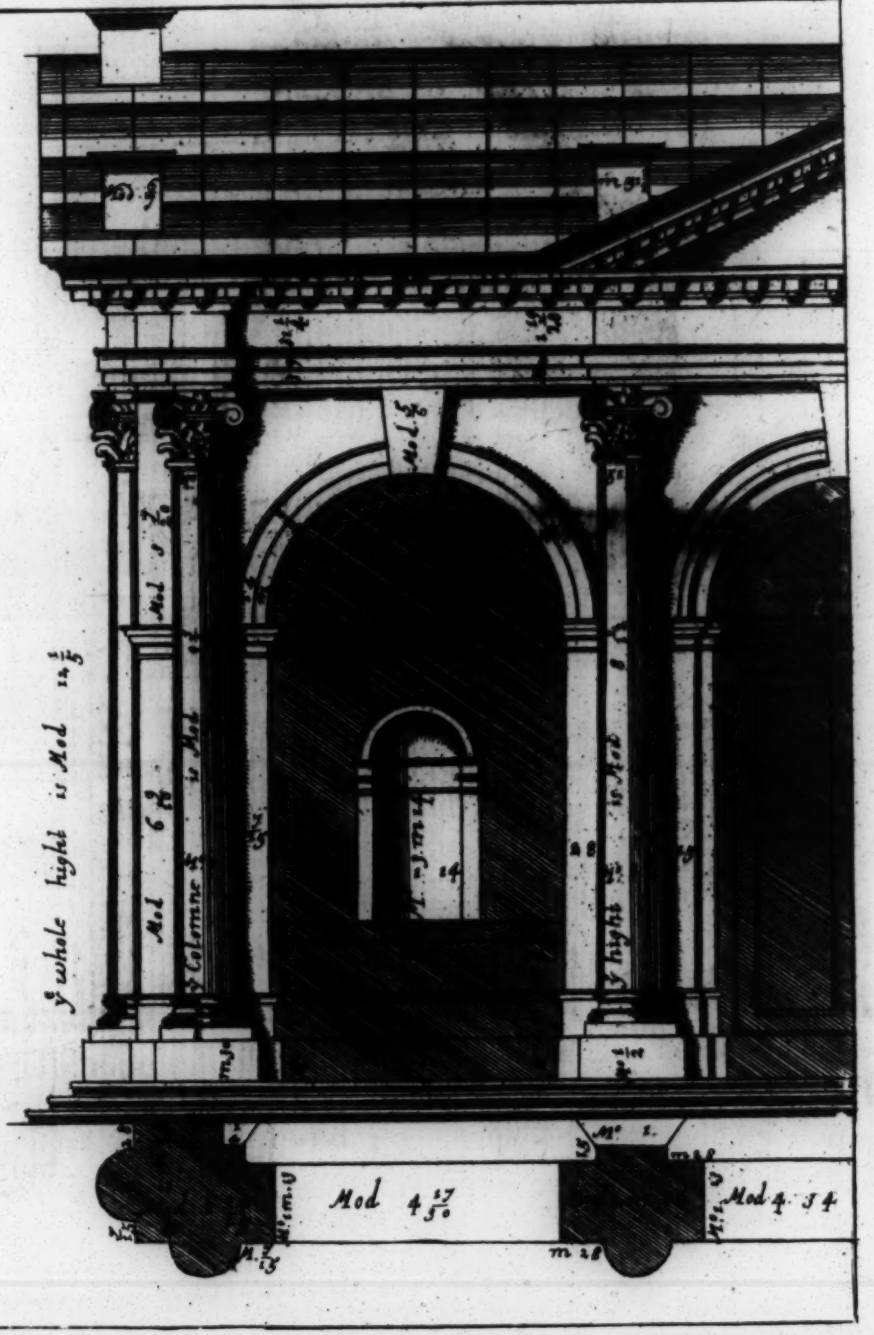
The ROMAN Colomne

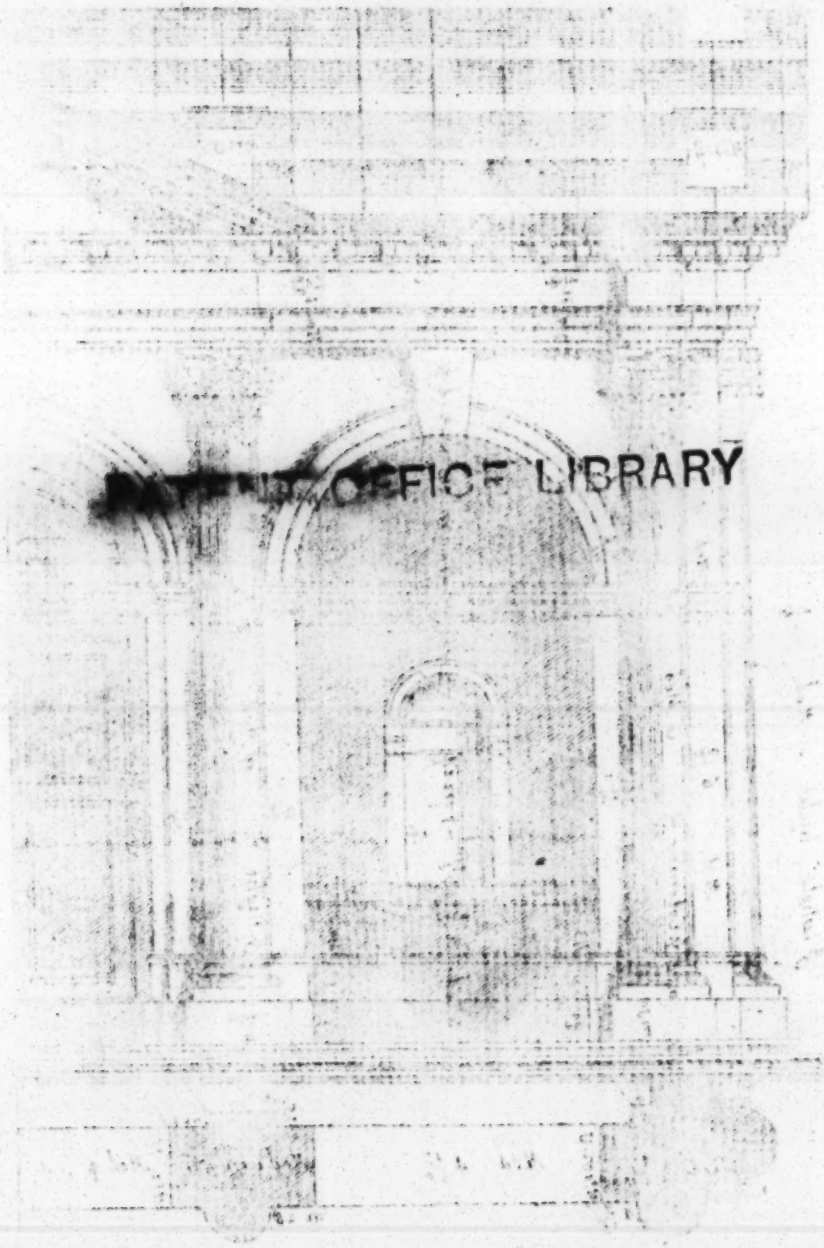


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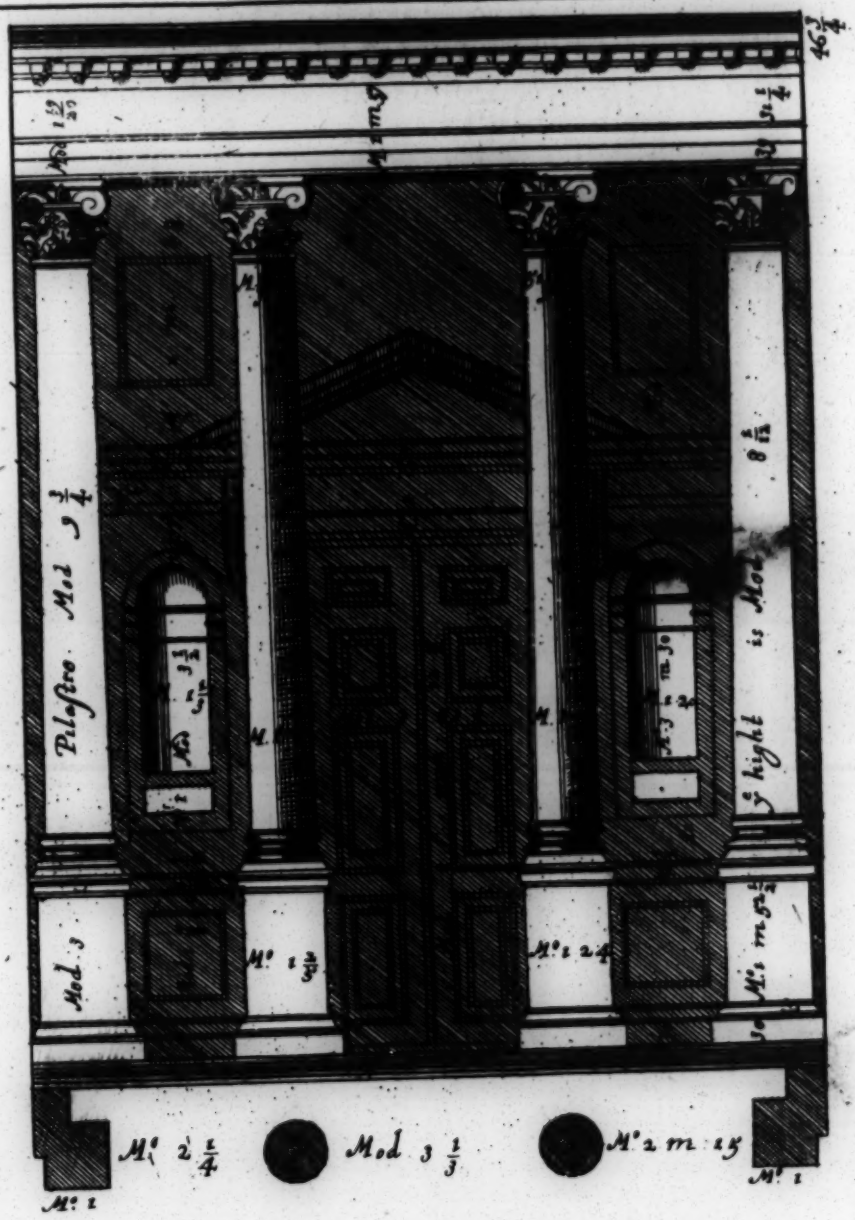
The ROMAN Arch

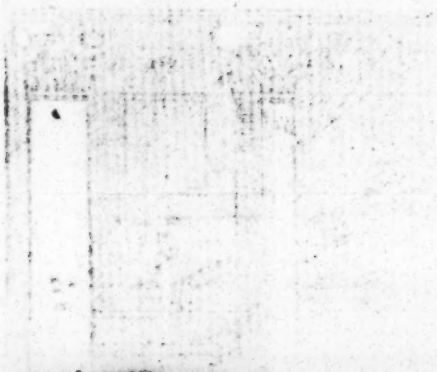



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ye ROMAN Colomne the Wye Pedestall

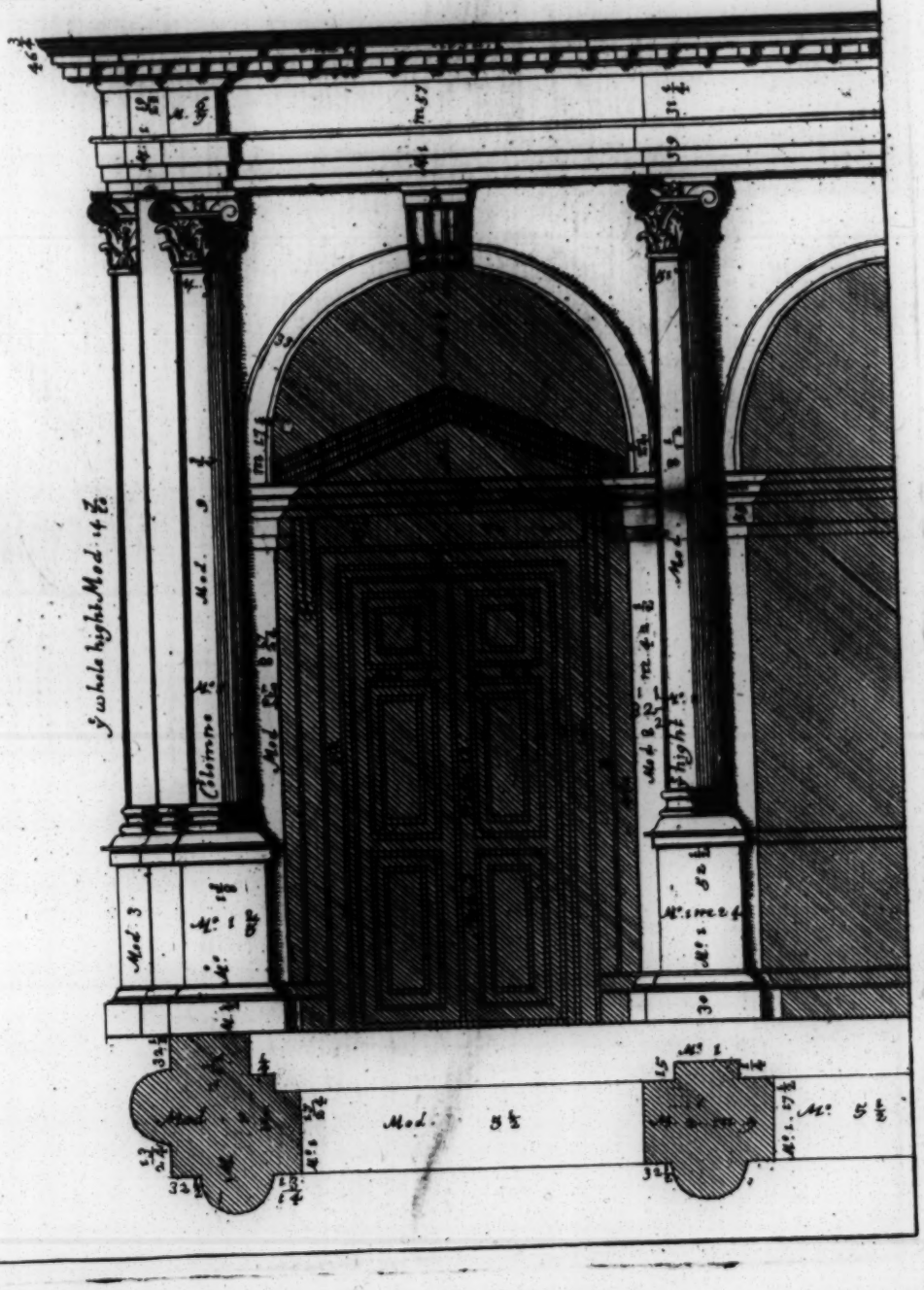




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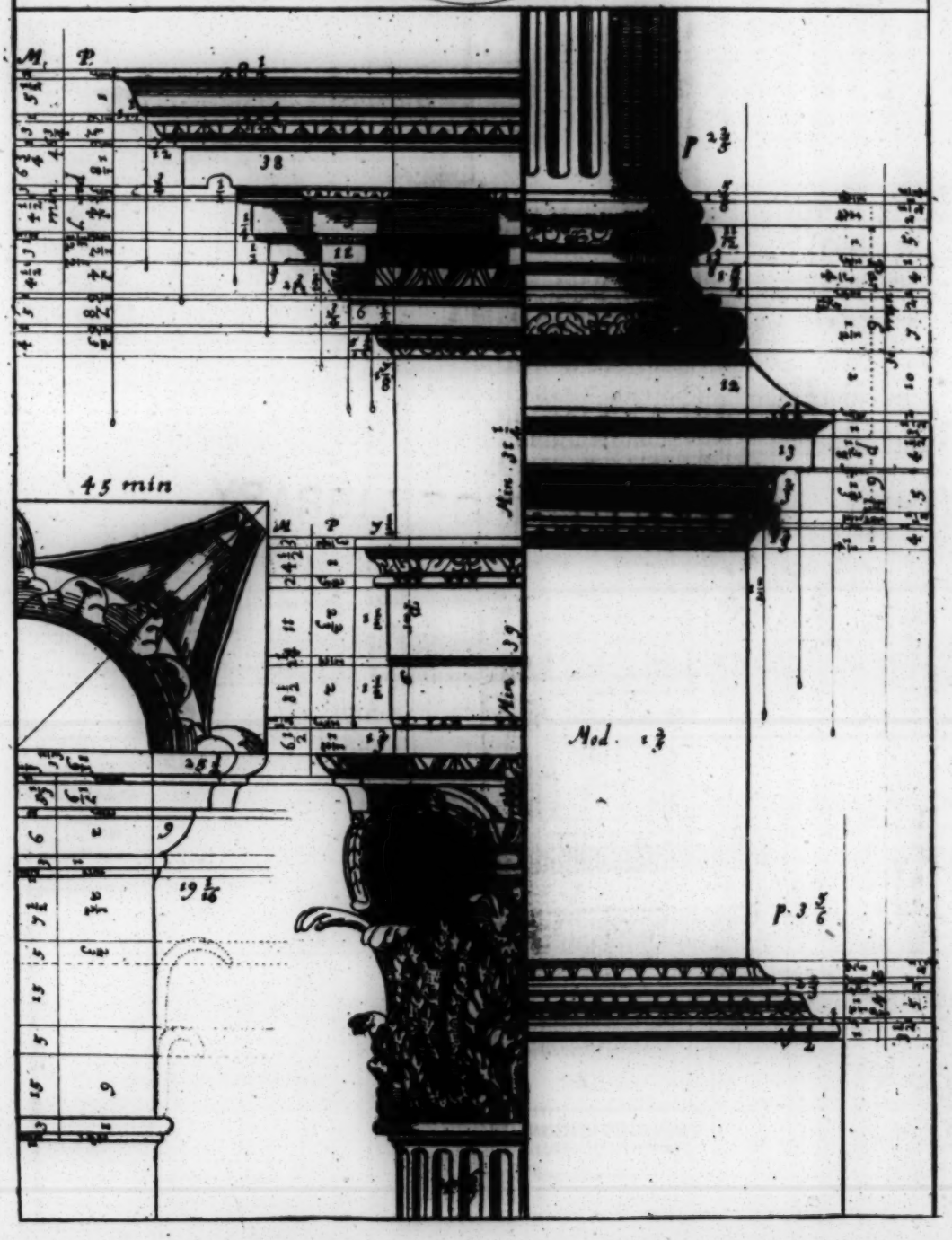
The ROMAN Arch with a Pedestall

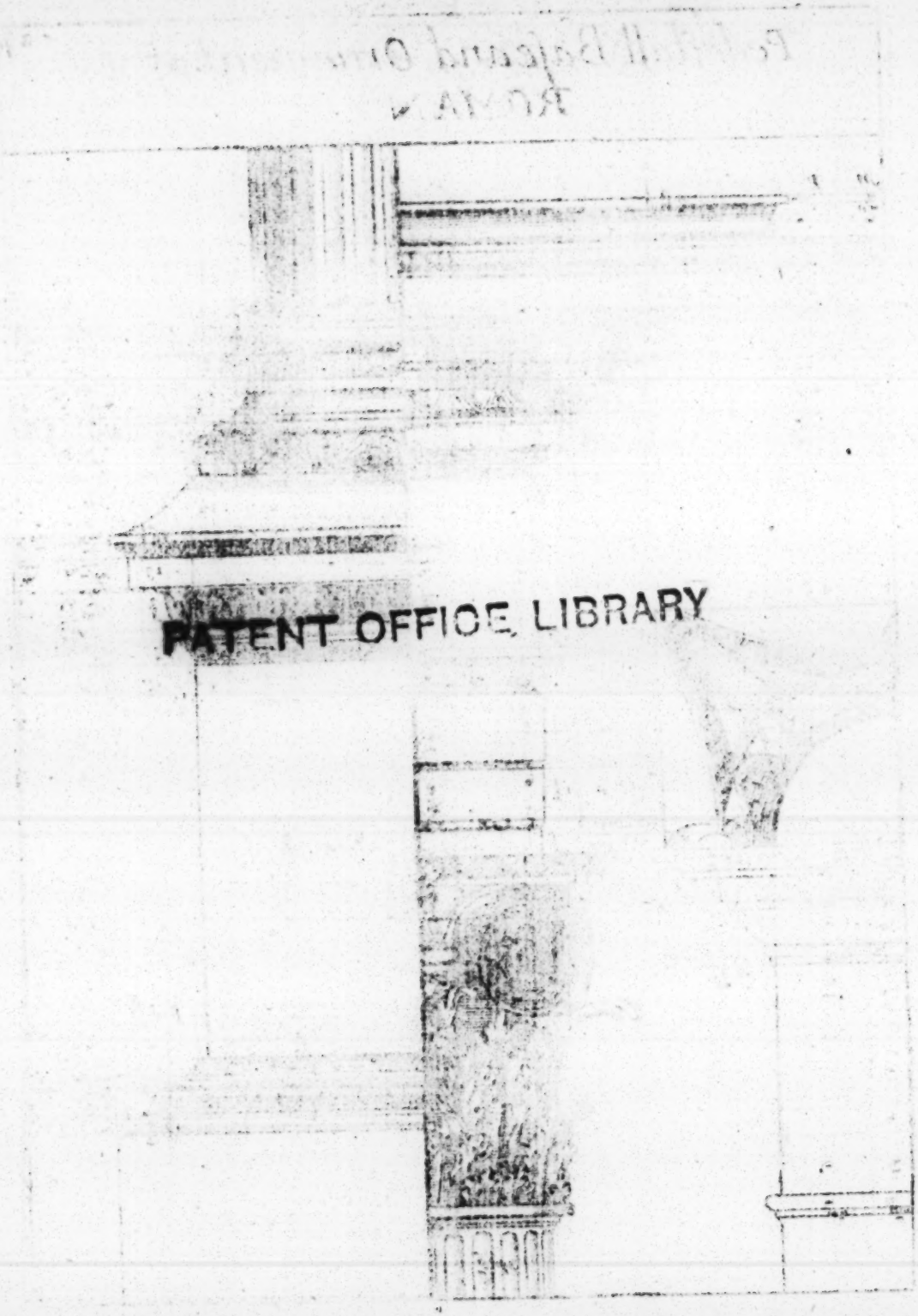


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Pedestall Base and Ornament of ye ROMAN

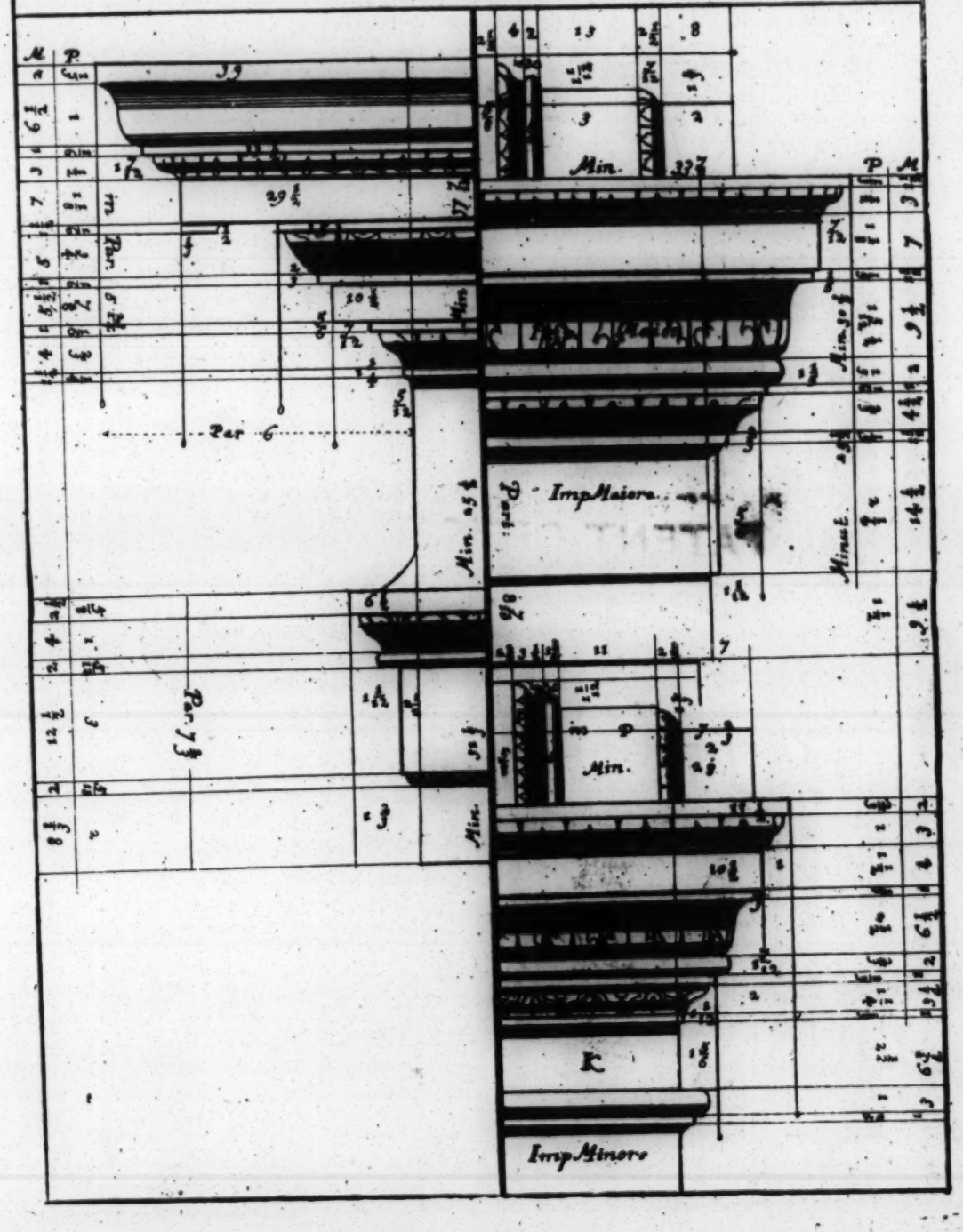




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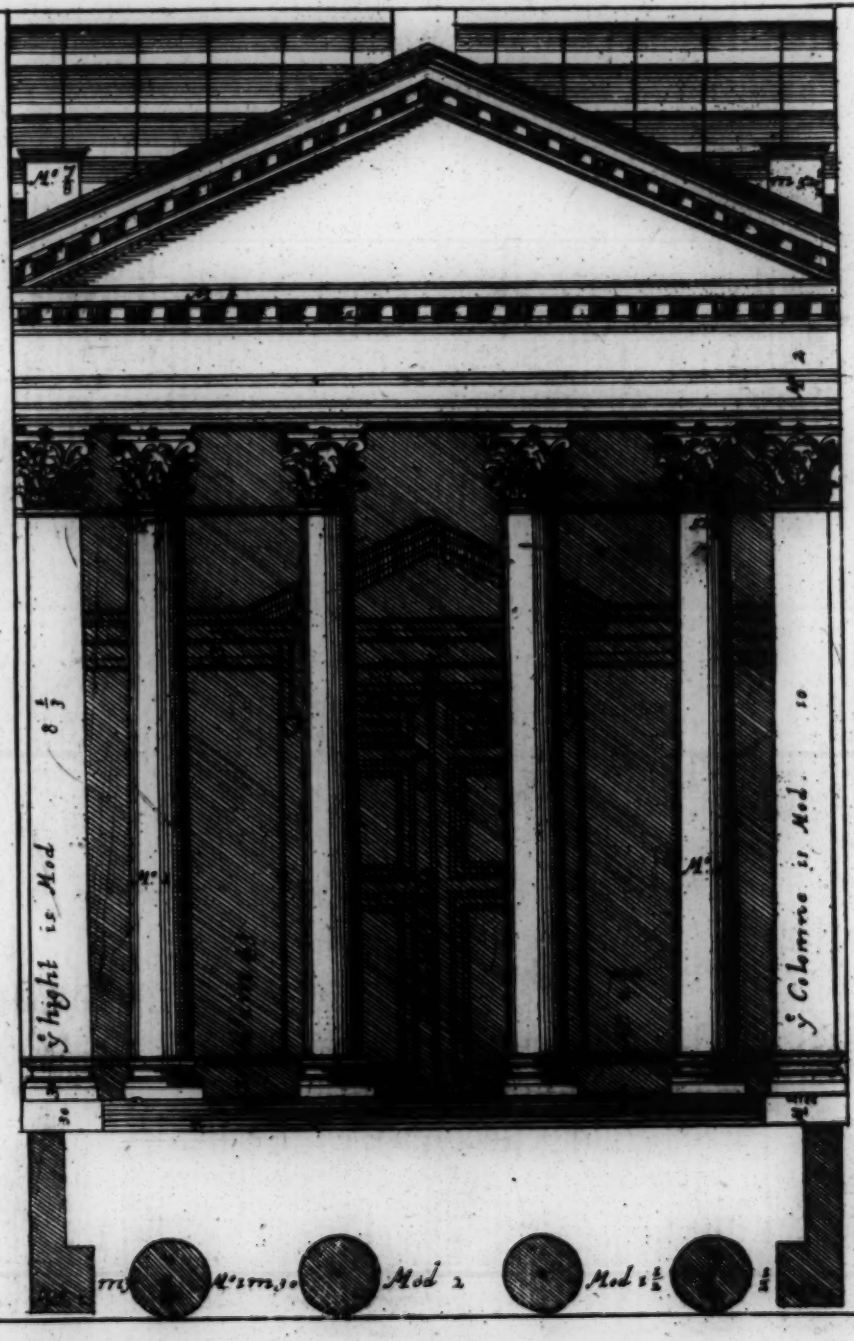
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The CORINTHIAN Colomne

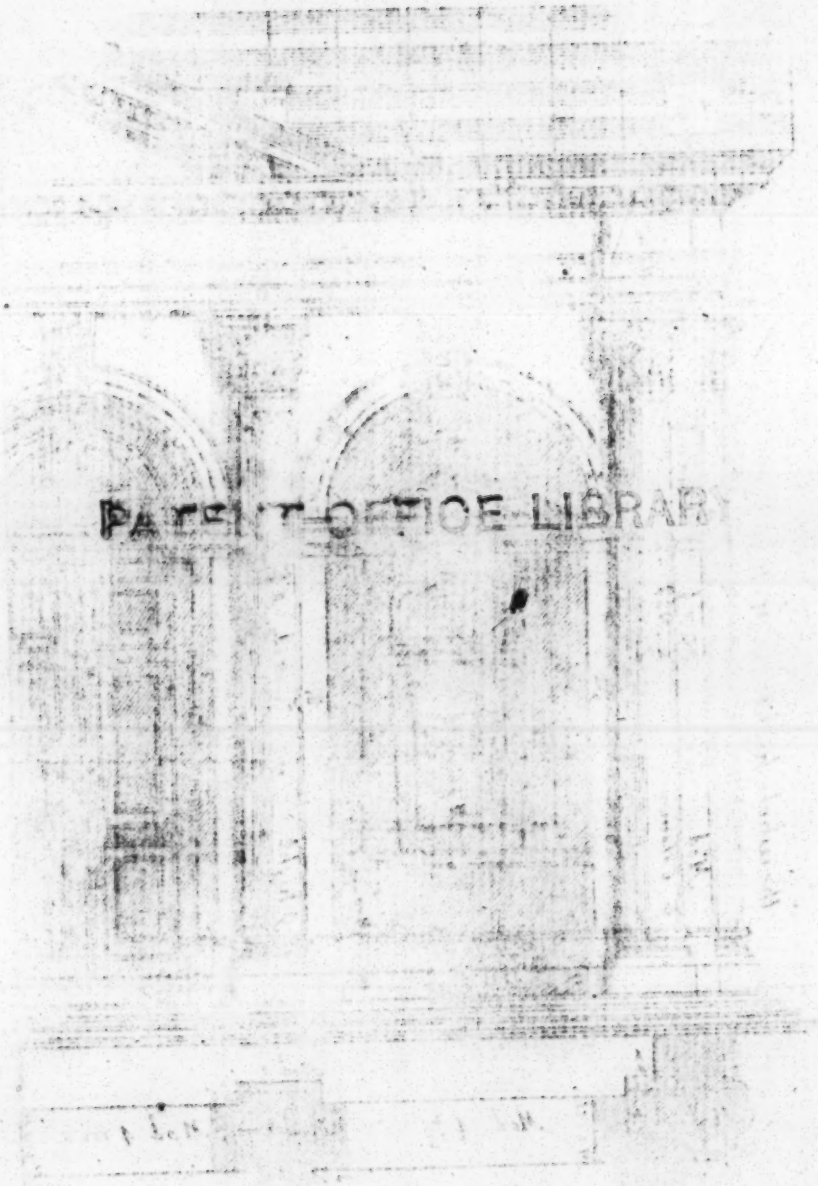


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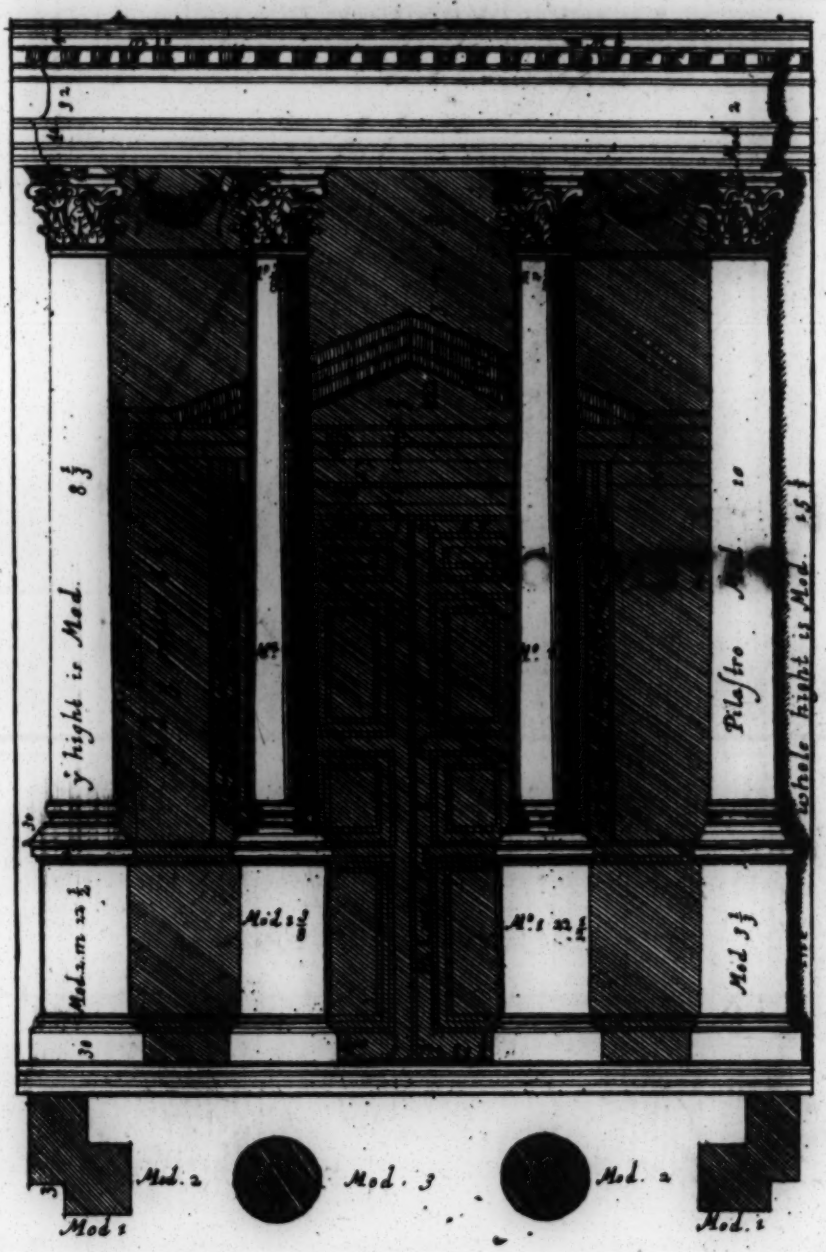
The CORINTHIAN Arch



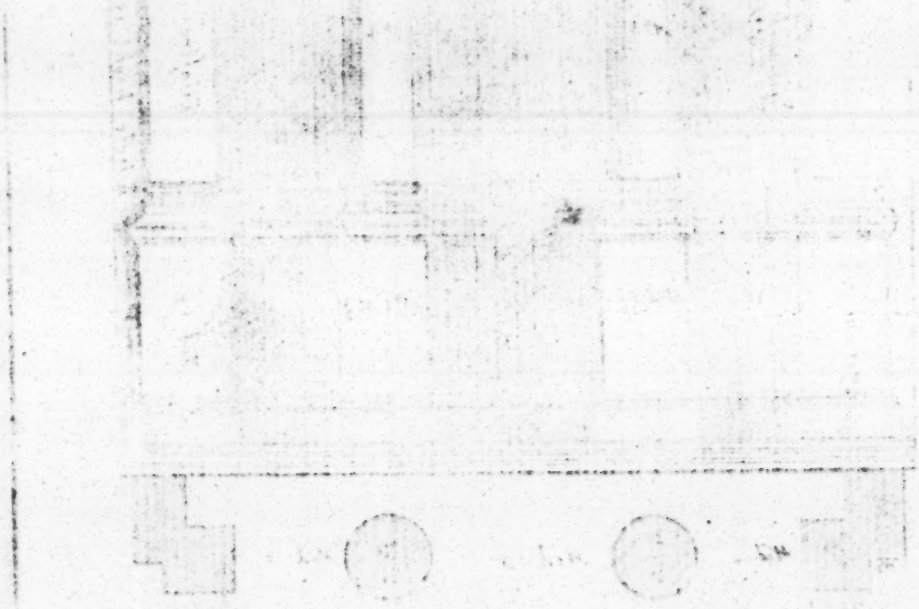

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The CORINTHIAN Colomne with the Pedestall



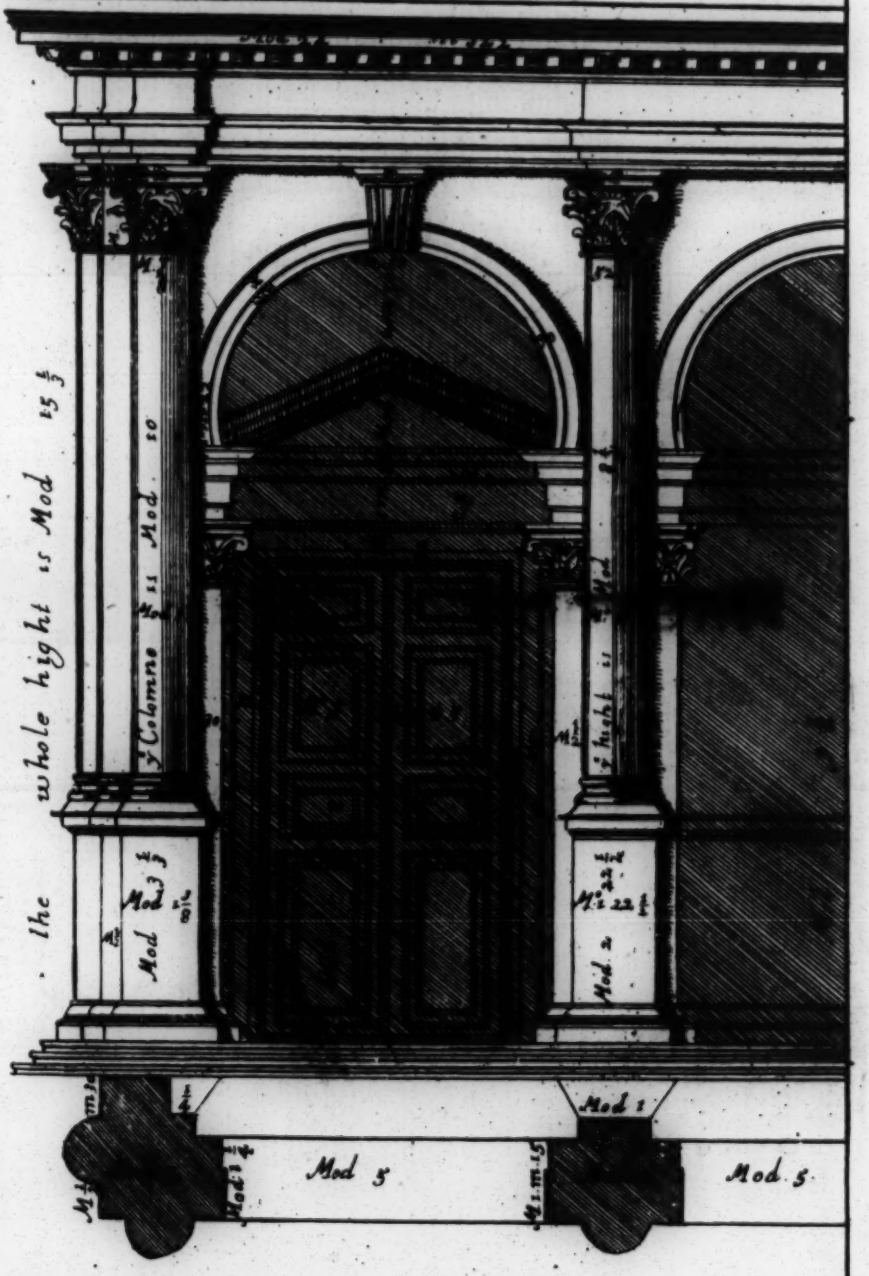
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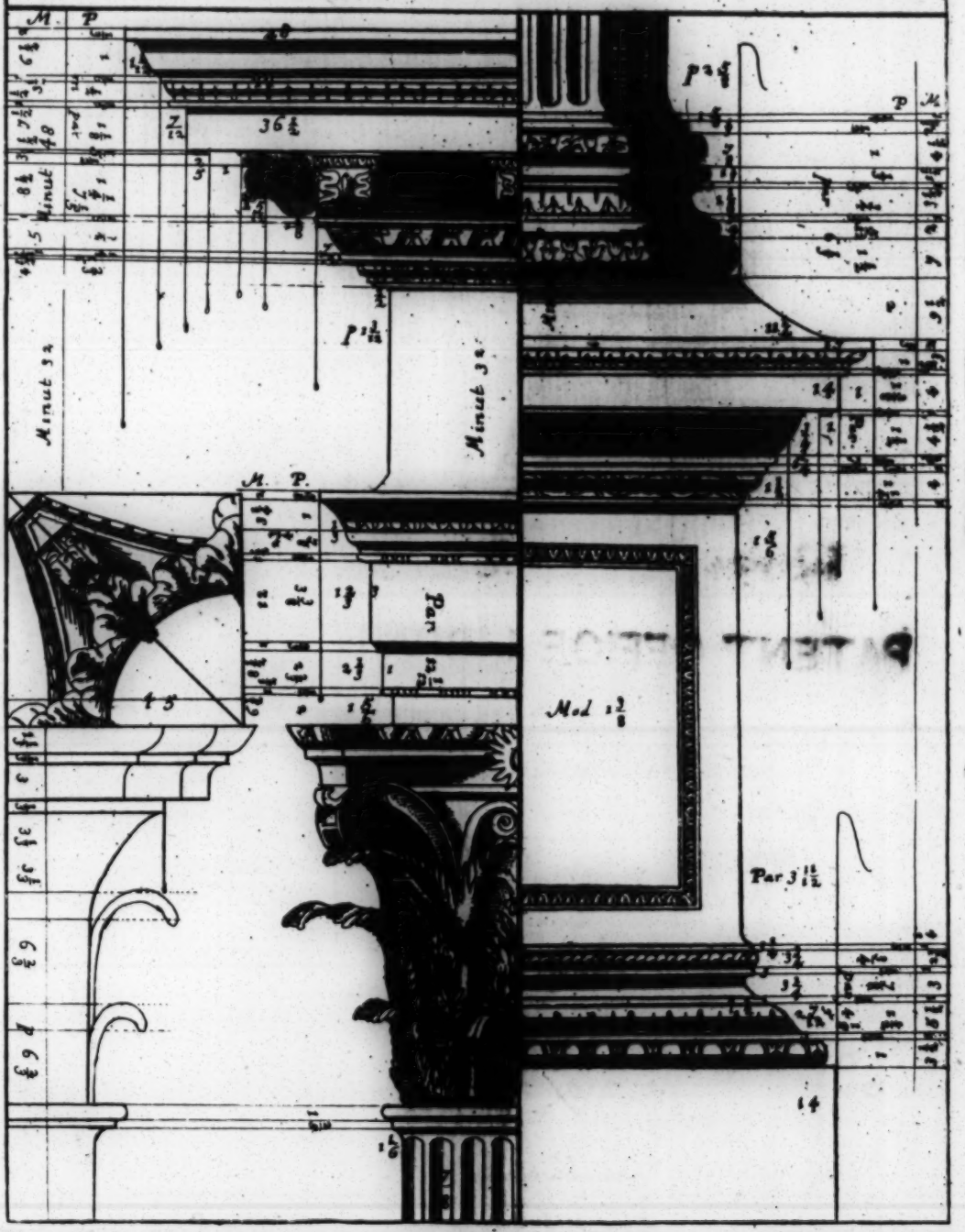
The CORINTHIAN Archway

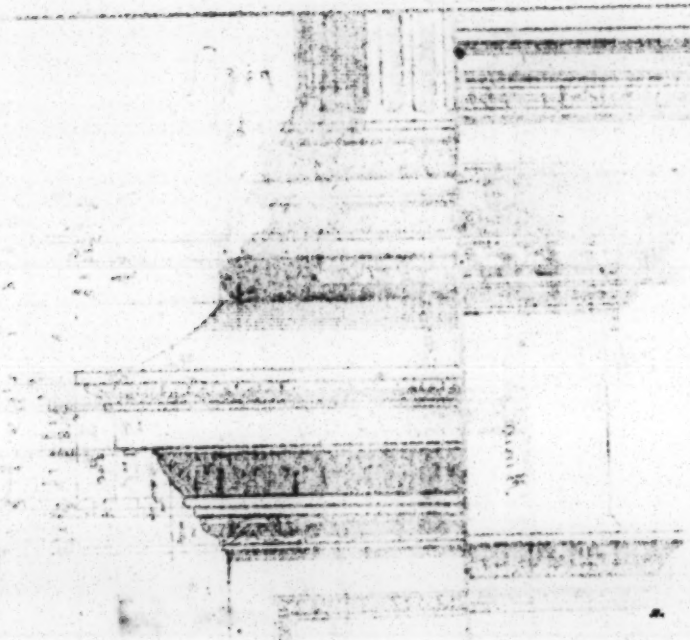
Pedestall



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Pedestall Base and Ornament of ye 30 CORINTHIAN

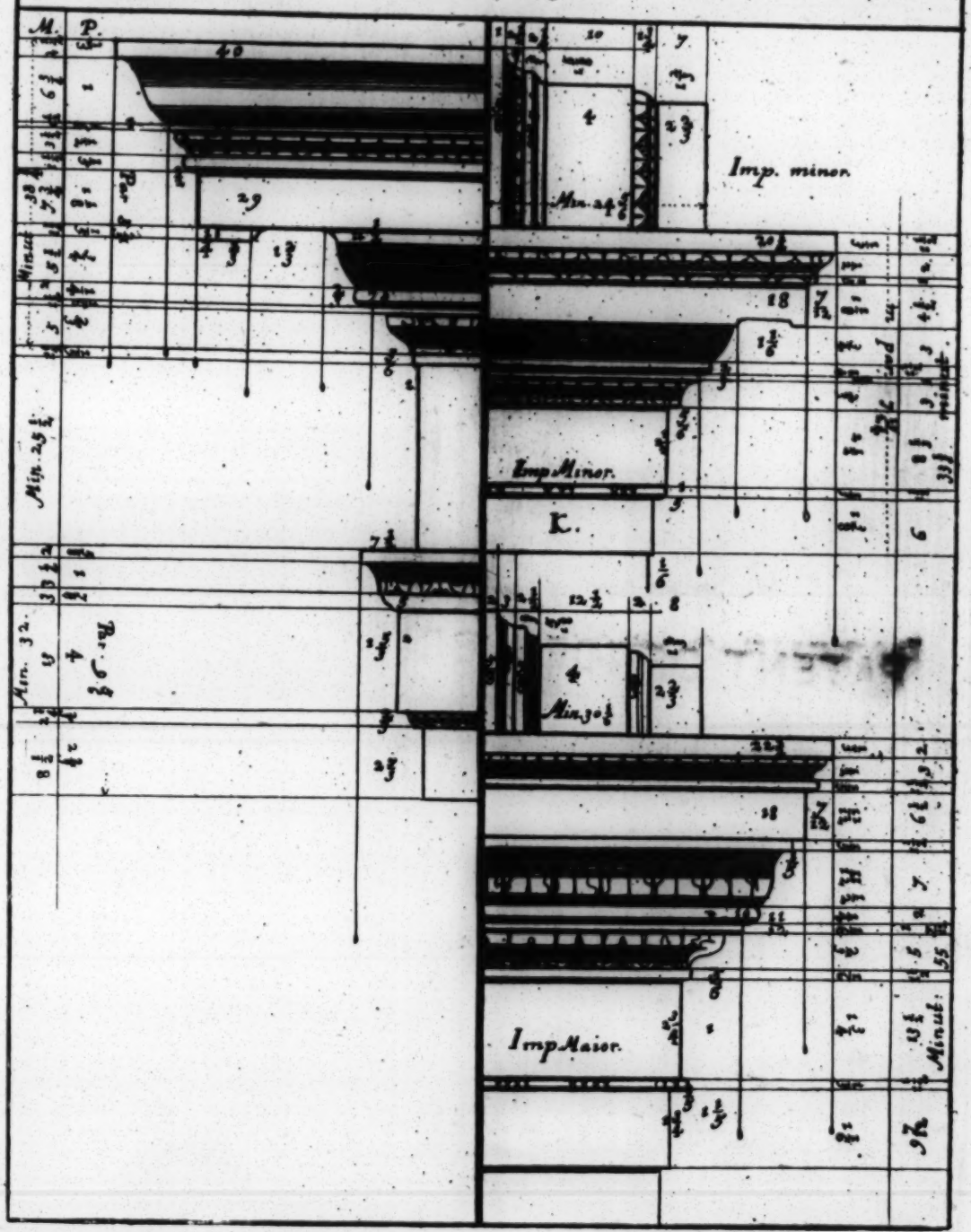


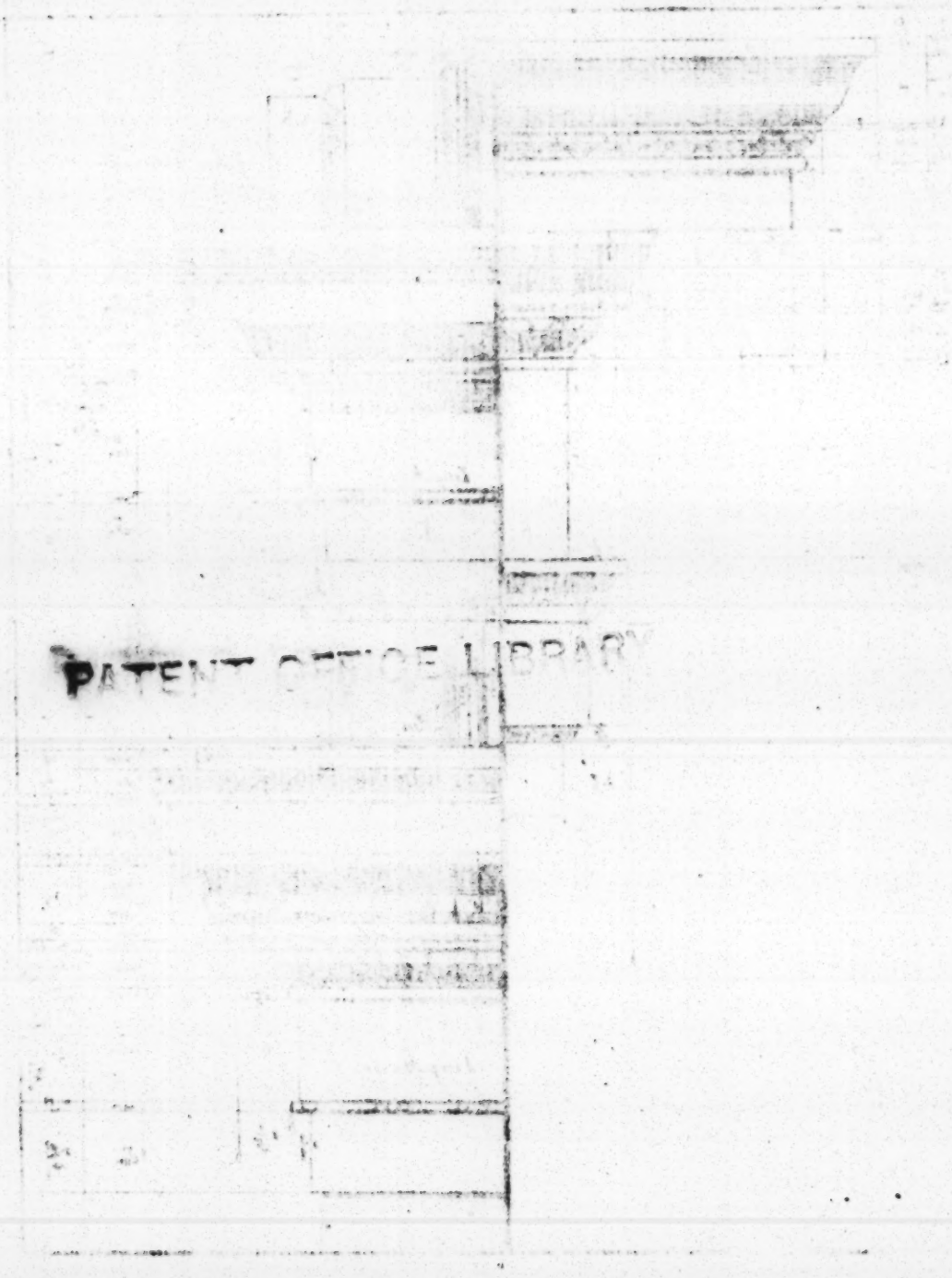


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Imposts and Ornaments of ye CORINTHIAN 32

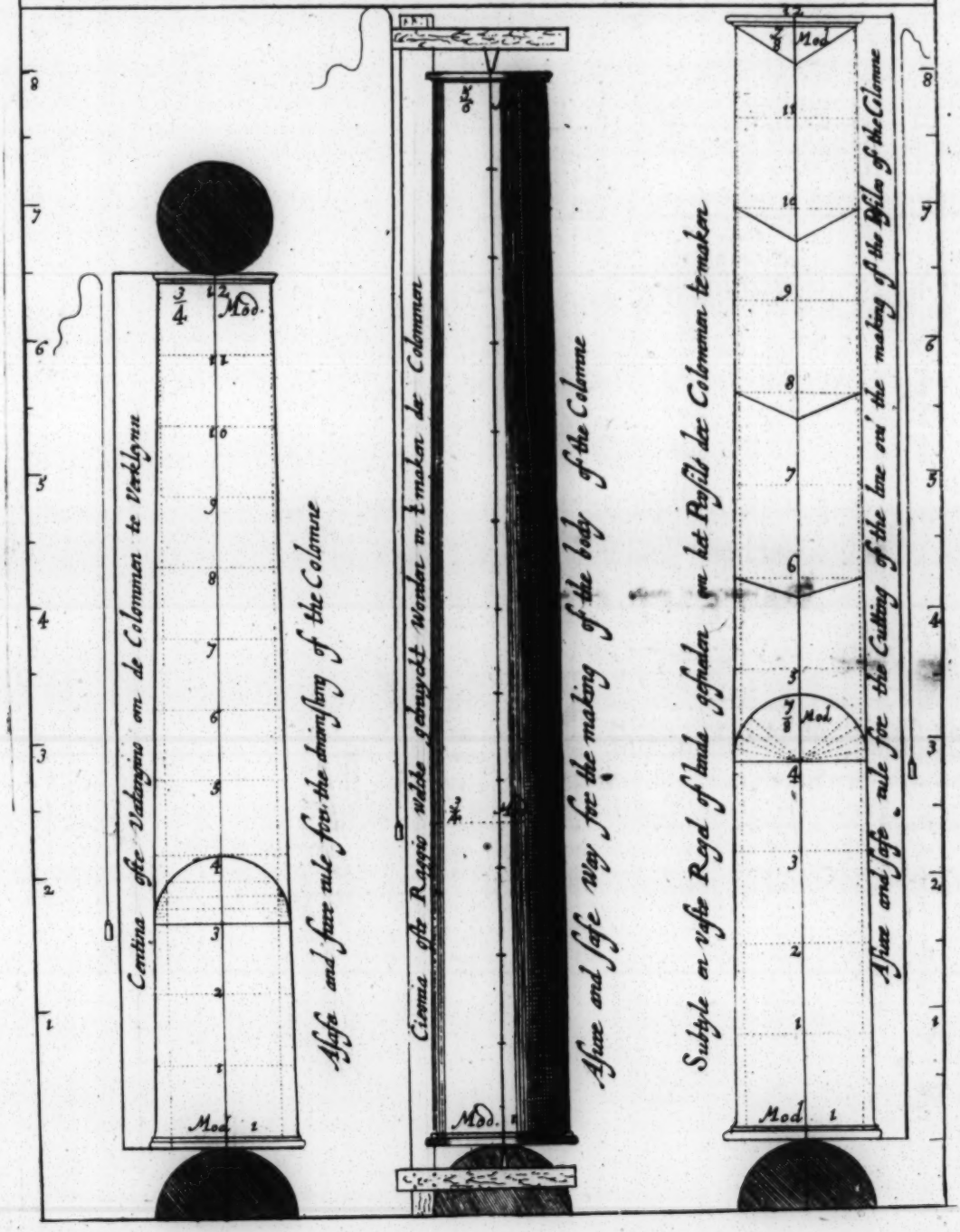




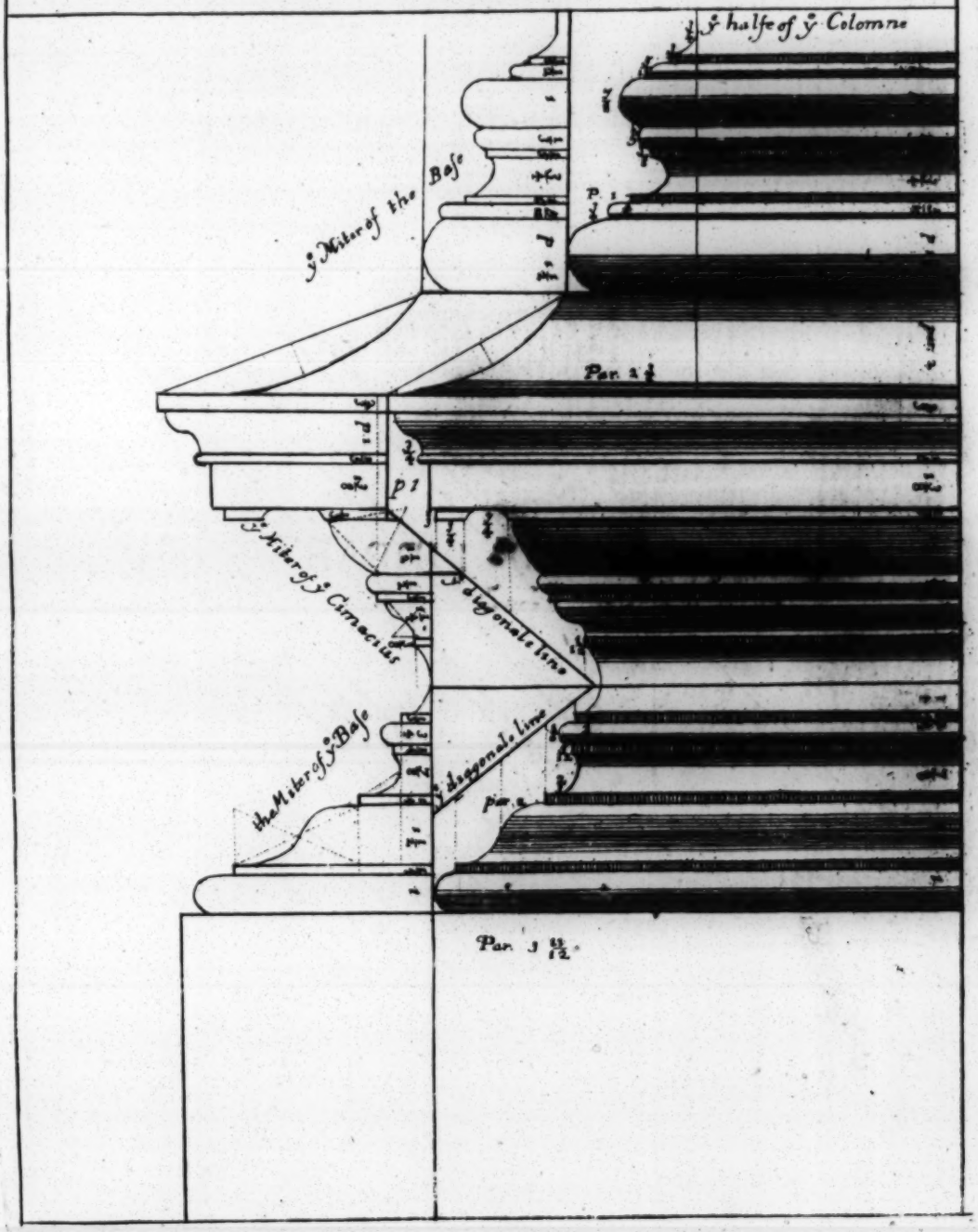
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The Diminishing of the Colomne



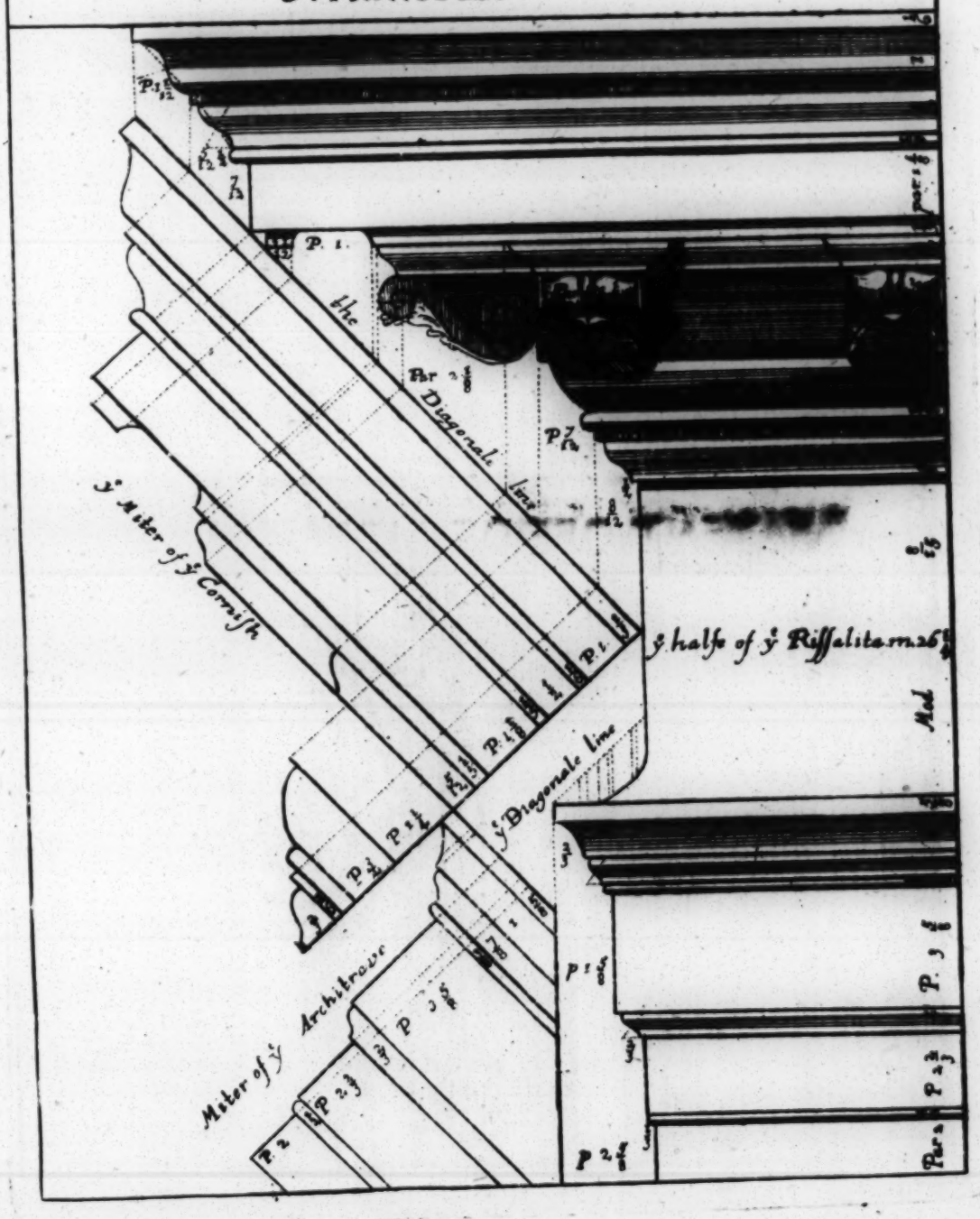
The Baſe of the CORINTHIAN order



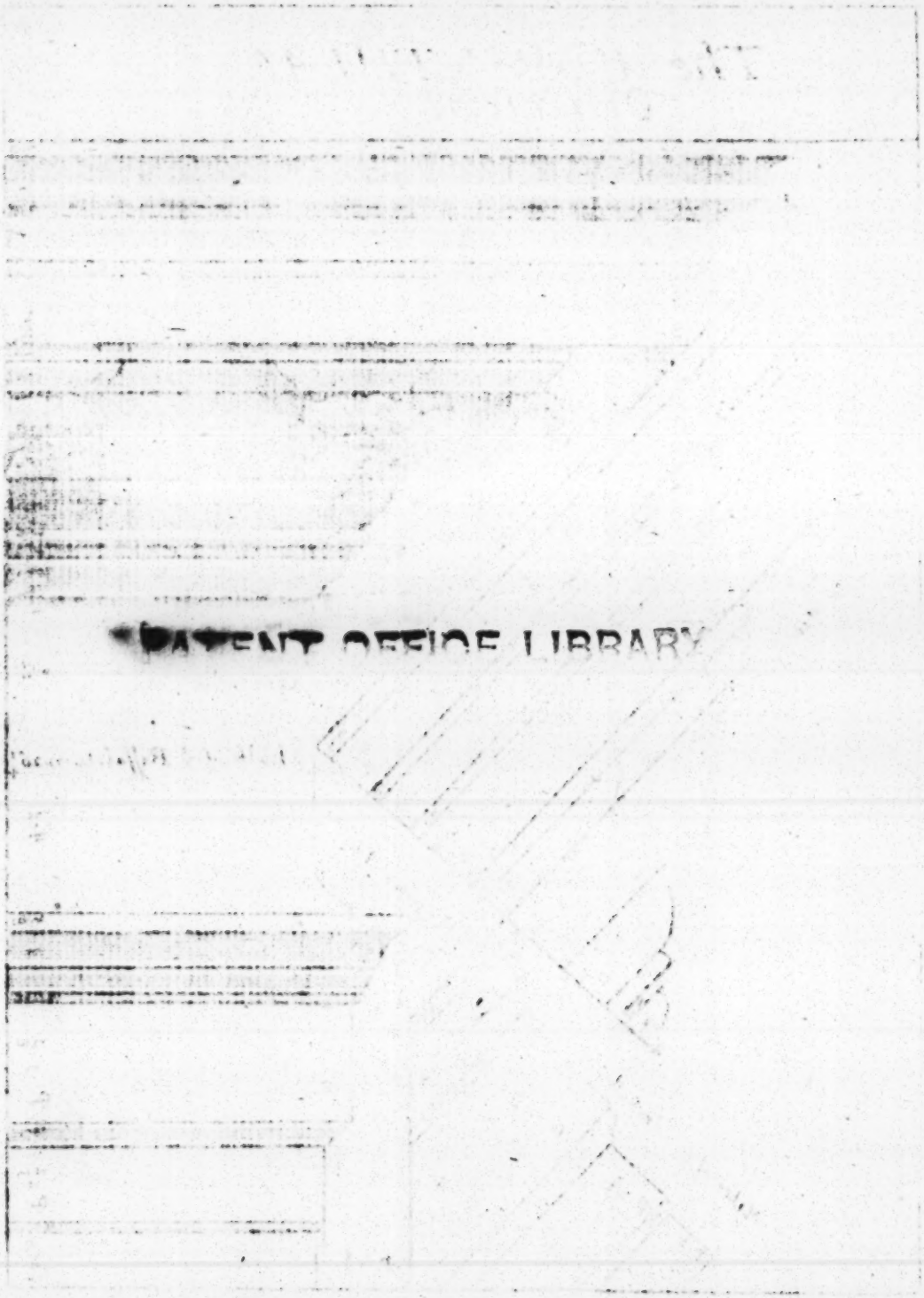
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The CORINTHIAN Ornament



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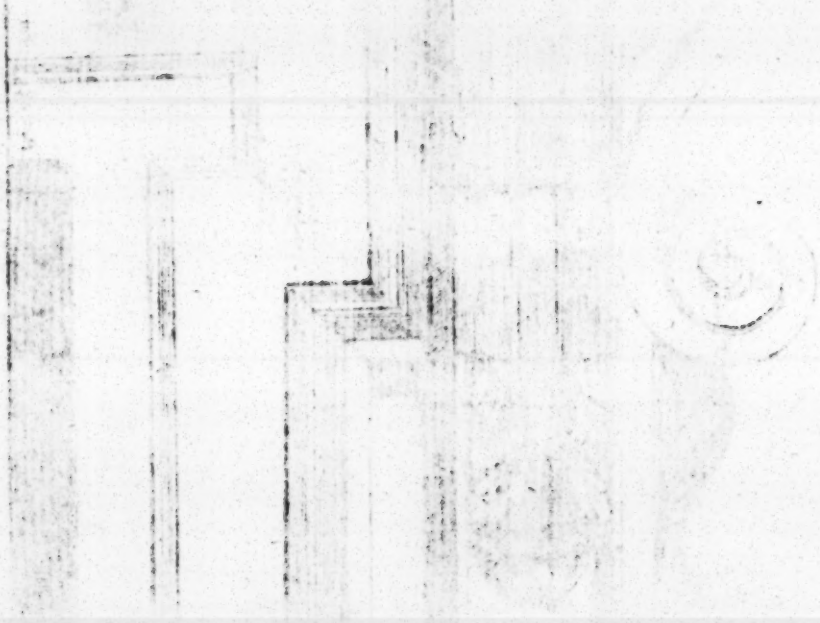


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The Ornament of A CORINTHIAN Doare or window



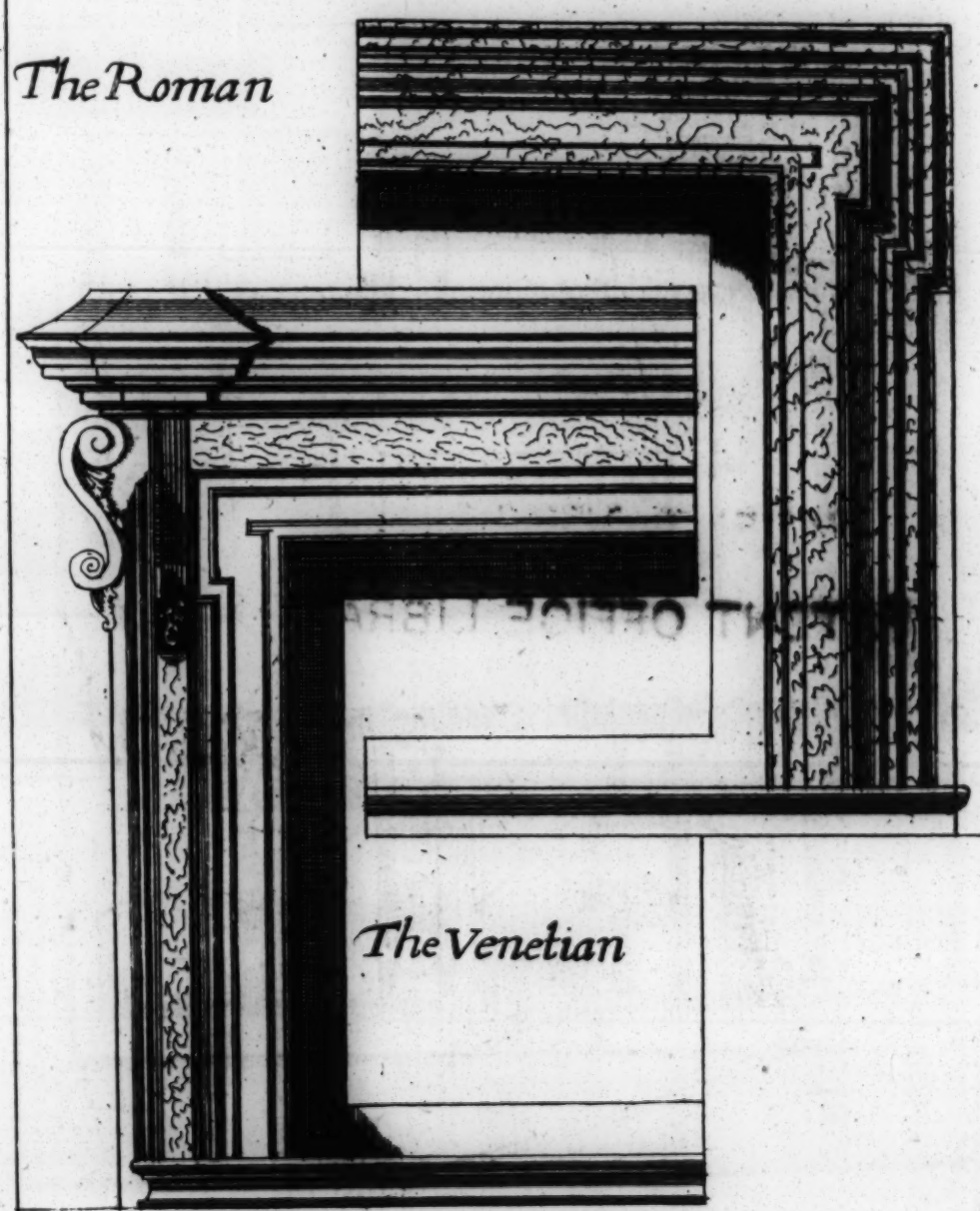
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Two Mantle trees for a Chimney:

The Roman

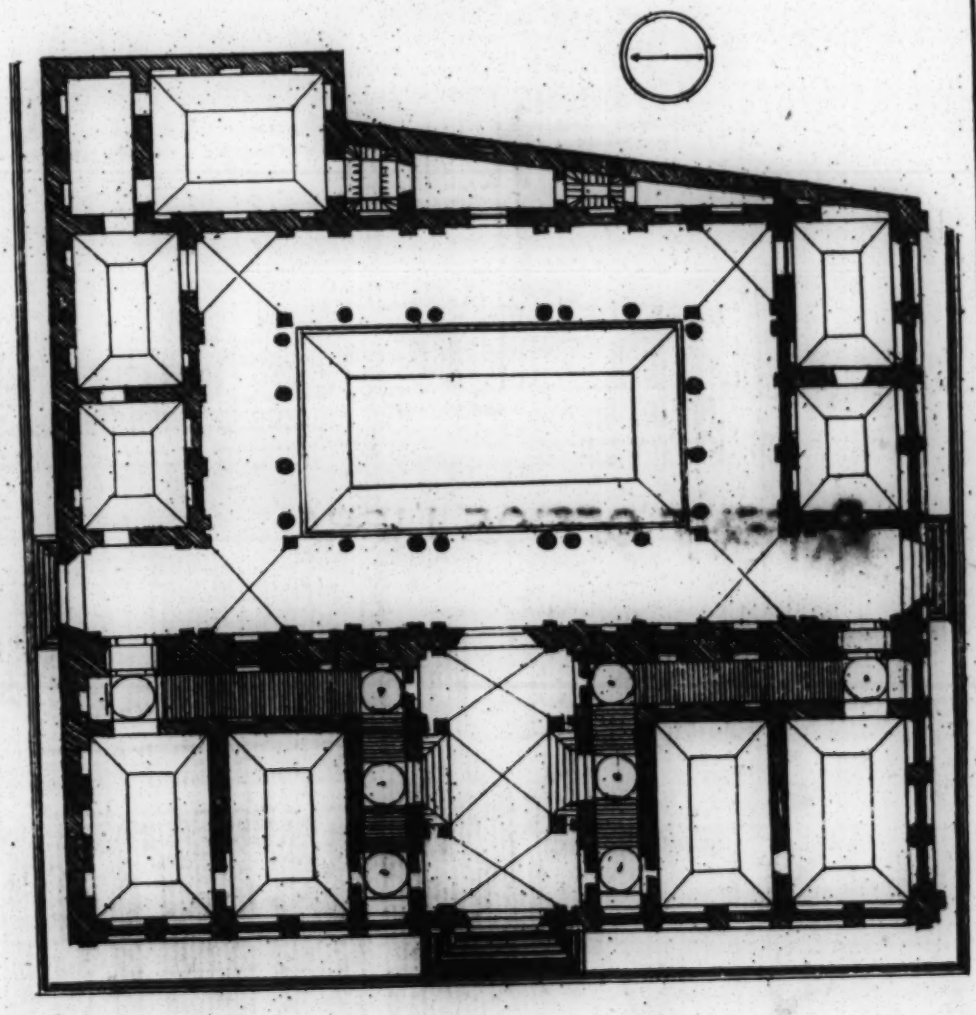


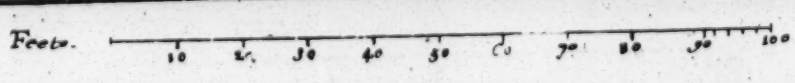
The Venetian

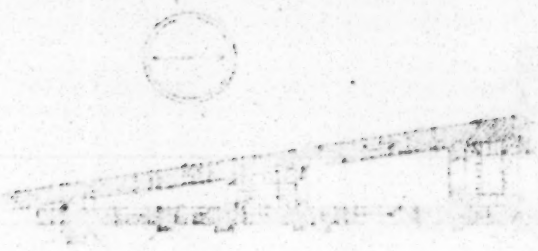
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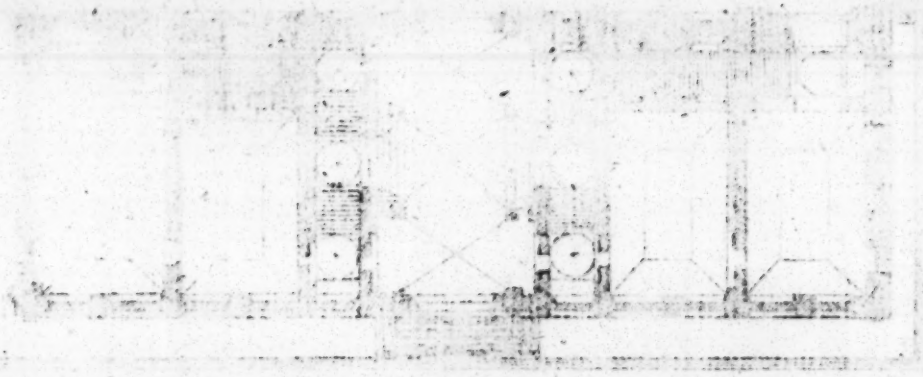
ye Ground platt of my Lord Strozzi house Standing att Florence





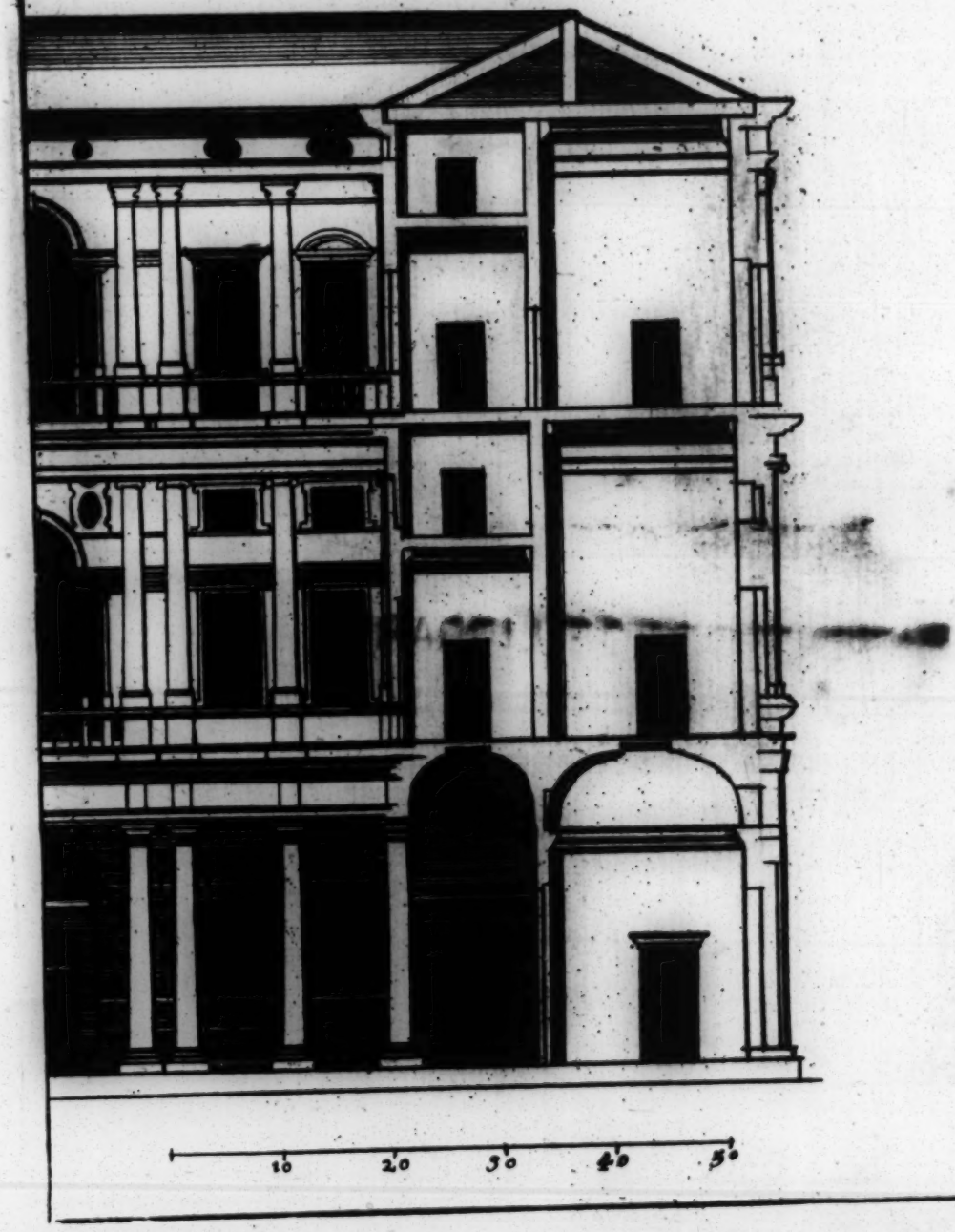


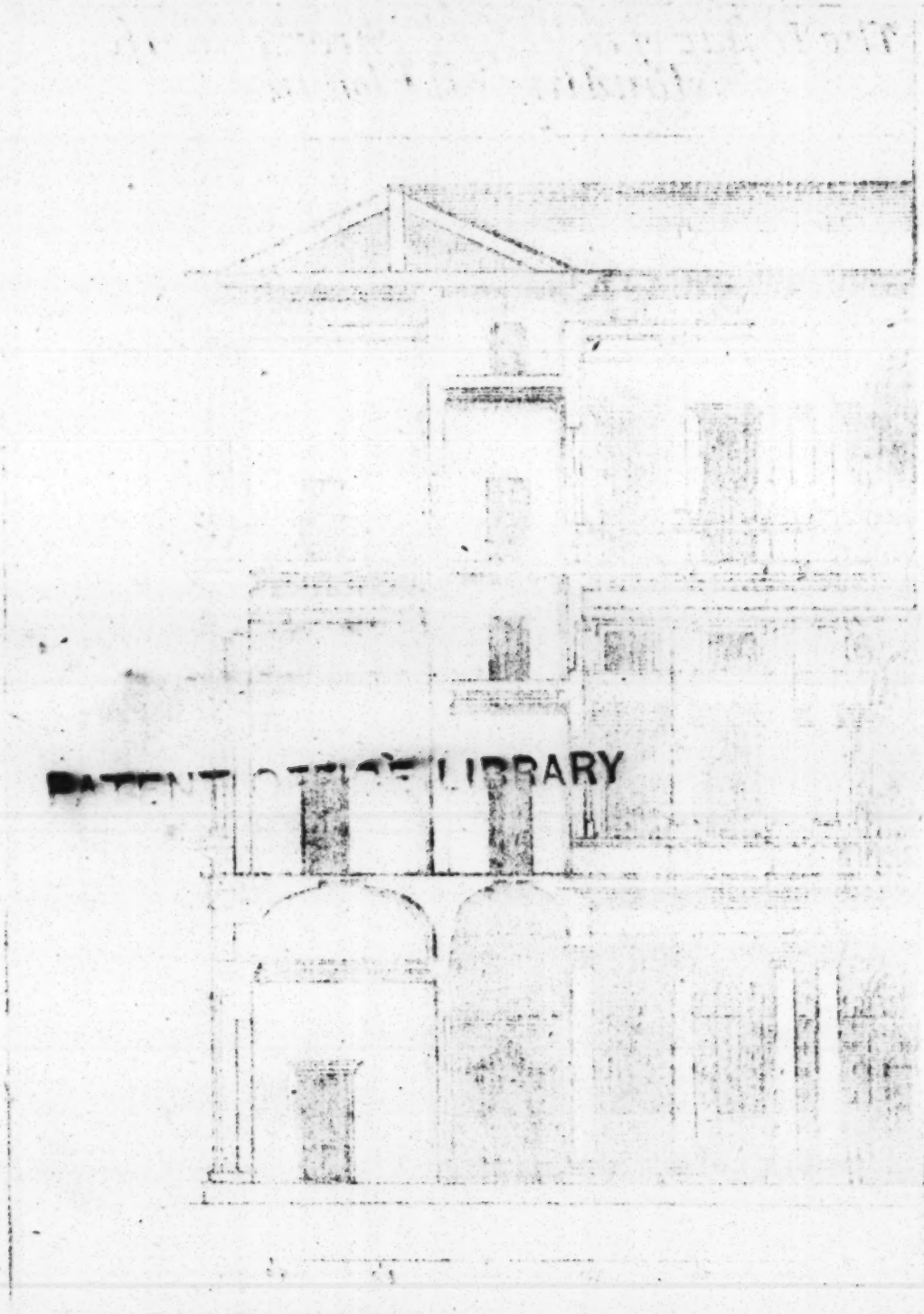
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The Inside of my Lord Strozzi house standing att Florence

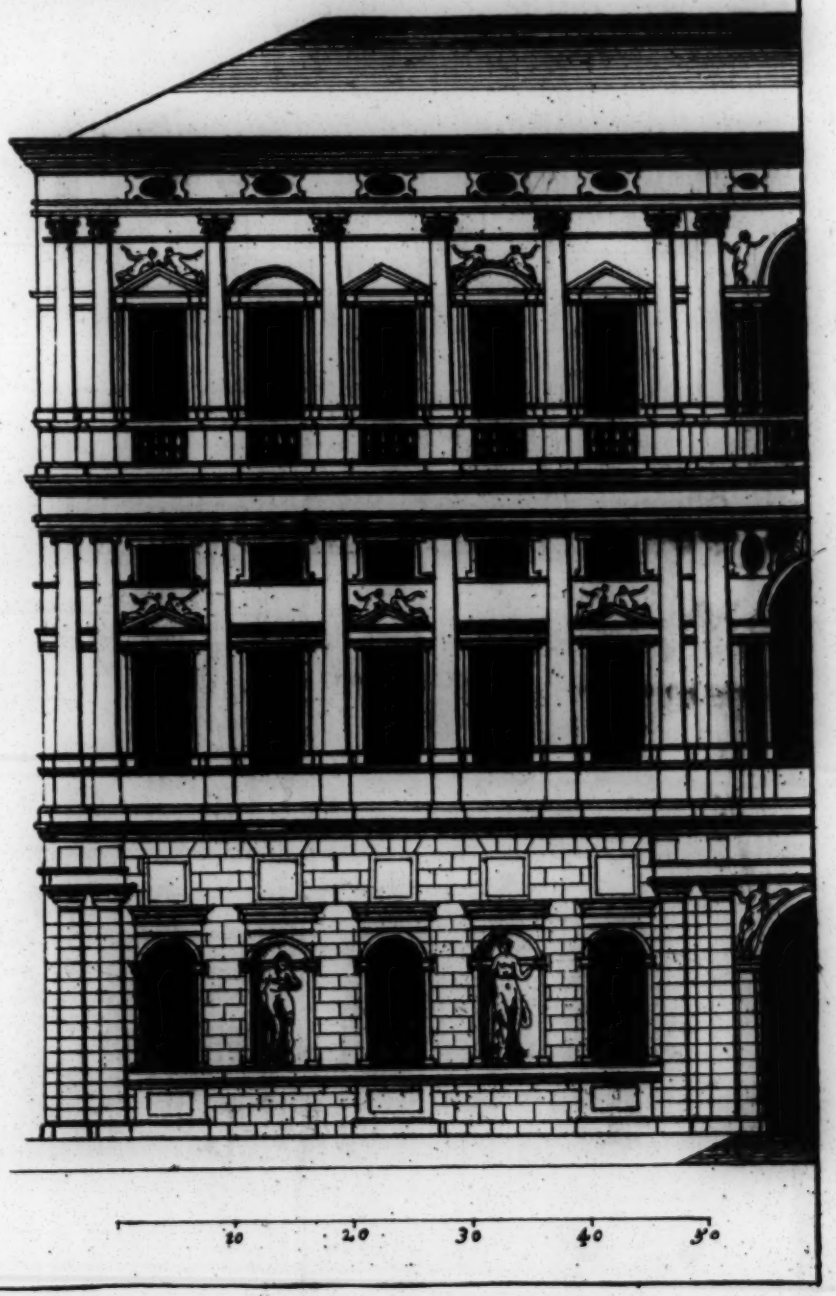




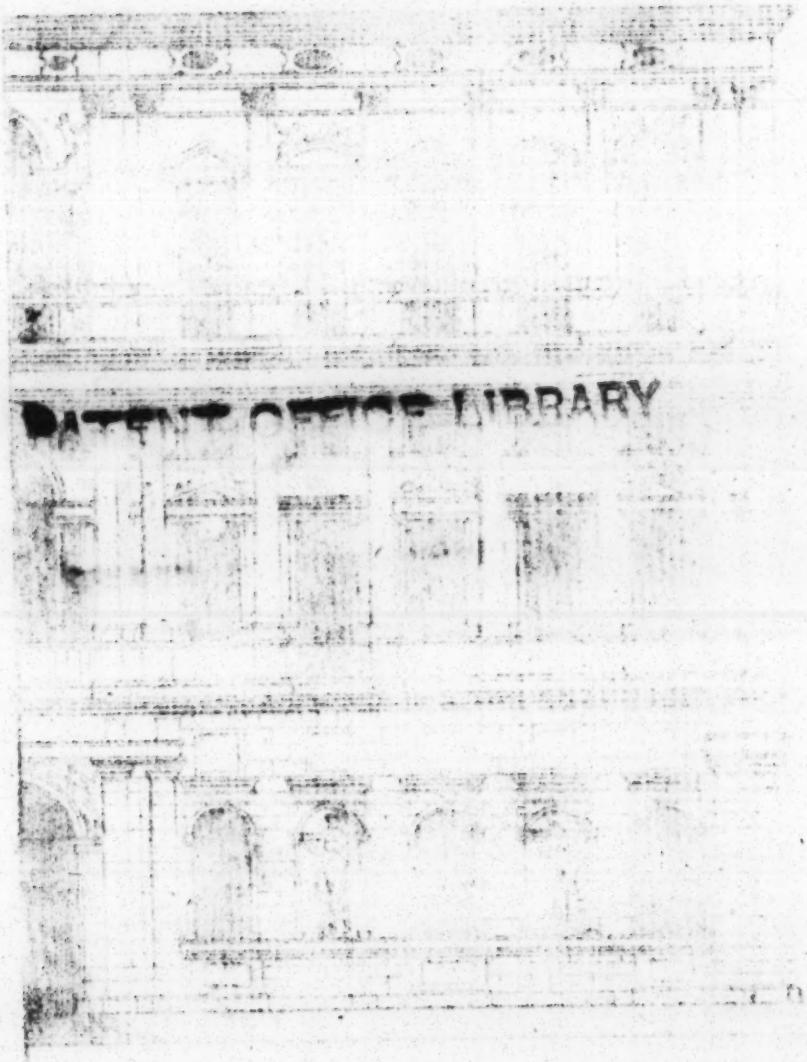
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The front of my Lord Strozzi house standing att Florence



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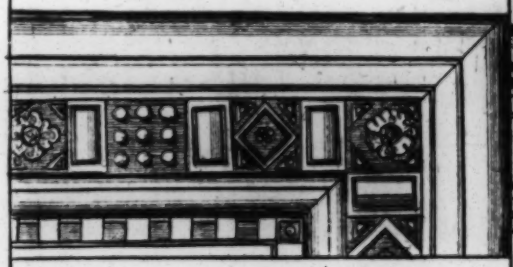
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The Vnderside of ye Cornish

Toscana



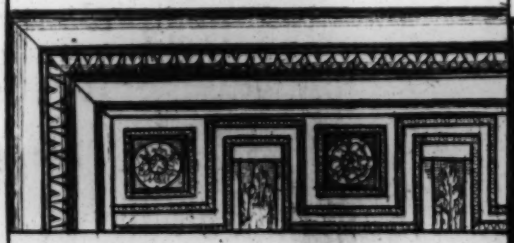
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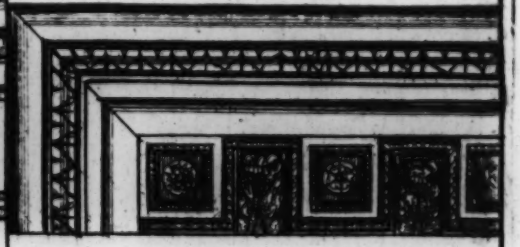
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These. 3. Chimneys
& Double Skyre cap Turning,
belong to ye Twelfth
and End of ye Booke:—
called.
The Ground Rules of Architecture.

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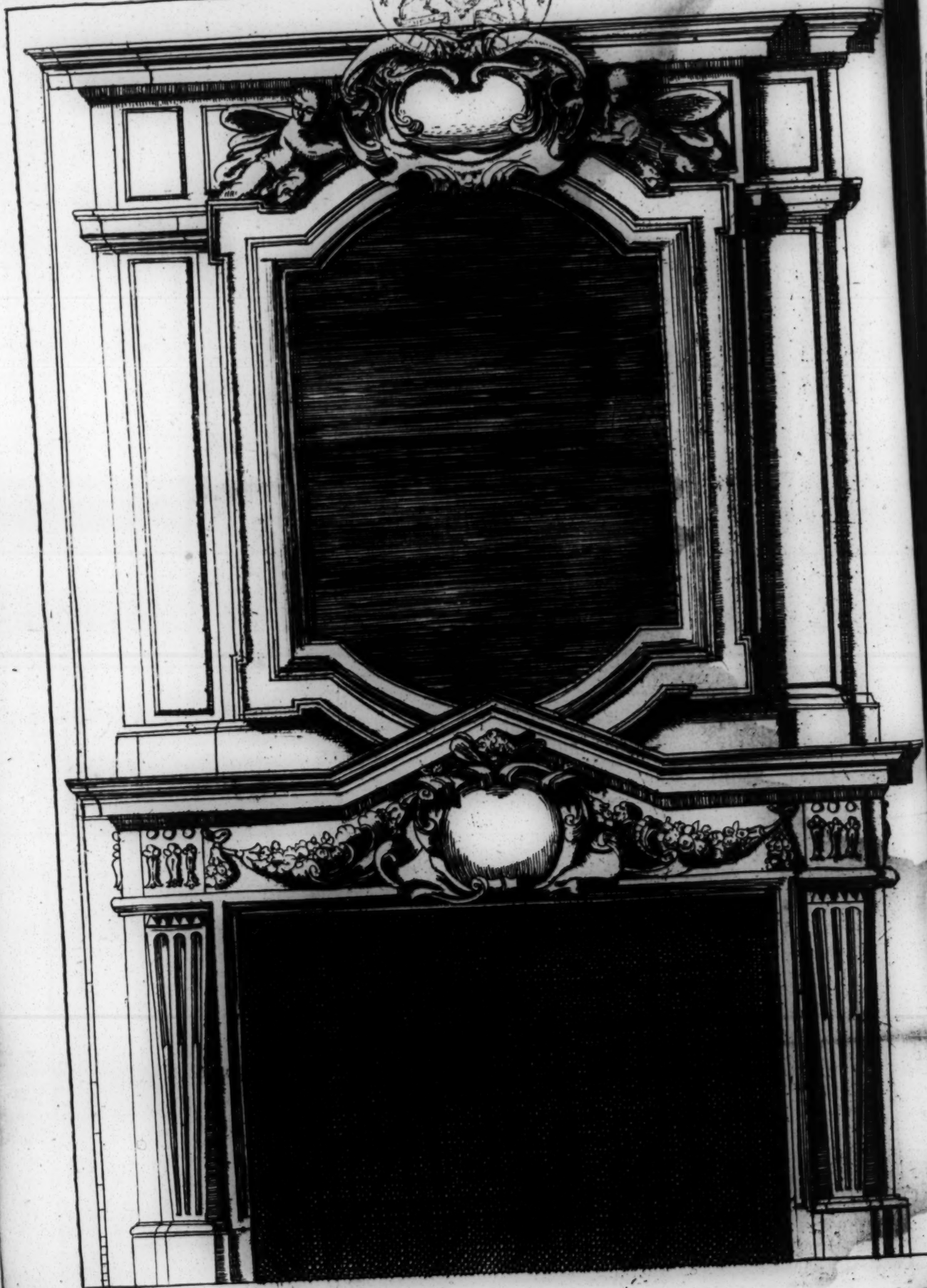
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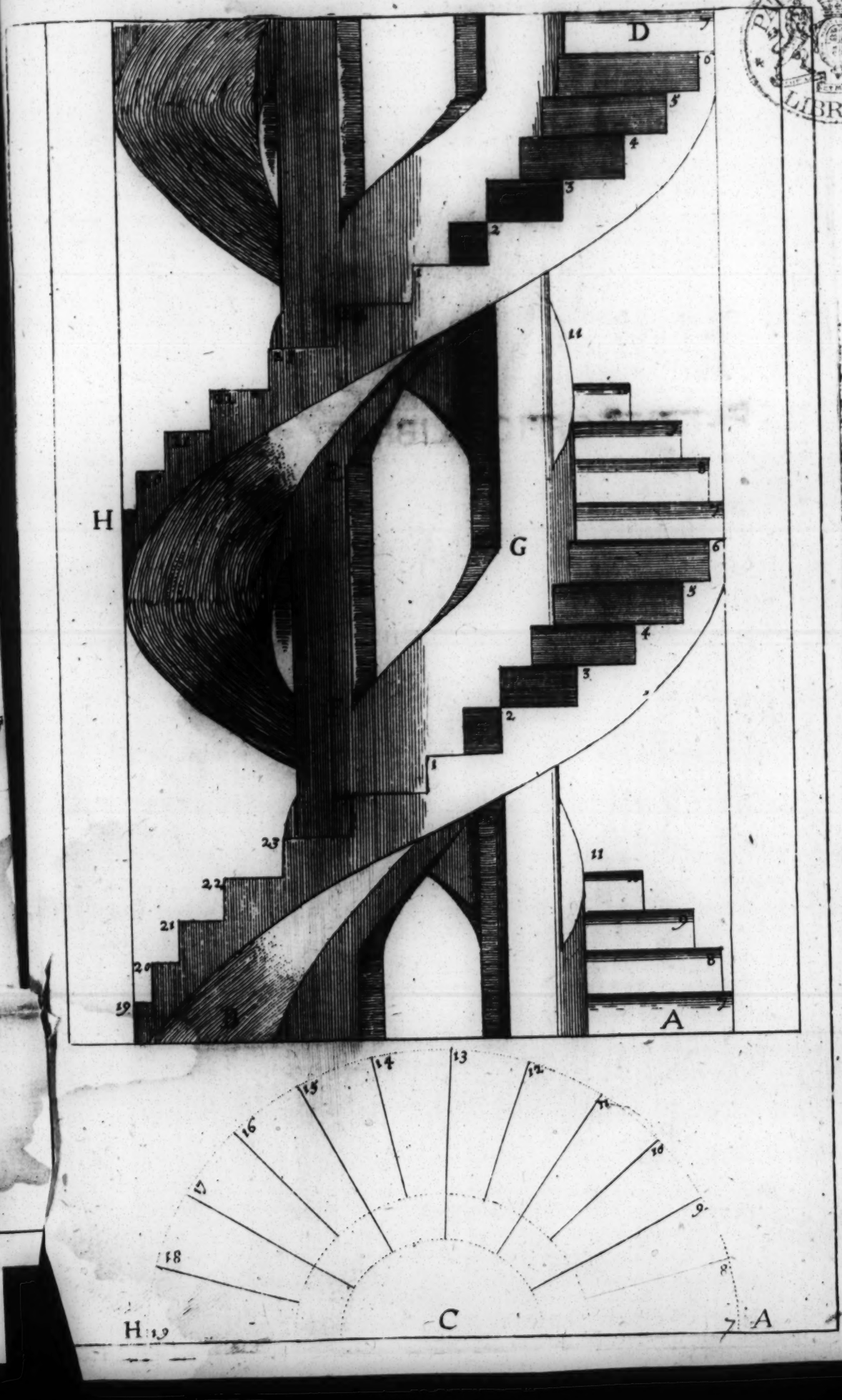
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THE

DESCRIPTION

Of the five Orders of

Architecture,

And first

Of the TUSCAN *Order.*

Note, that the Number in the ſeveral Diviſions with the following Explanations, refer to the Figures in the Book as they are marked from 1 *to* 40.

I.

IN the firſt Figure here is ſhown the ſeveral Orders of Columns how they differ from each other, and how high every one muſt be.

The *Tuſcan* muſt be 11 $\frac{1}{4}$ Models high; whereof the Pedeſtal muſt be 1 $\frac{1}{8}$ Model, or 1 Model 52$\frac{1}{2}$ minutes: the Column muſt be 7 $\frac{1}{2}$ Models, the Ornament muſt be 1$\frac{1}{8}$ Model, and ſo the Ornament is one fourth of the height of the Column, and the Pedeſtal alſo is one fourth of the height of the Column.

The *Dorick* muſt be 12 Models 53 ½ minutes high; whereof the Pedeſtal muſt have 2 Models and 16 minutes; the Column muſt be 8¼ Models; the Ornament muſt be 2⅛ Models: ſo the Ornament is one fourth of the height of the Column, and the Pedeſtal is 3¾ of the height of the Column.

The *Ionick* muſt be 13 Models high; whereof the Pedeſtal muſt have 2½ Models; the Column muſt have eight Models and three fourths; the Ornament muſt have 1¾ Model: and ſo the Ornament comes to be one fifth part of the height of the Column, and the Pedeſtal 3½ of the height of the Column.

The *Roman* or the *Compoſita* muſt be 14⅞ Models high, or 14 Models 42 minutes; whereof the Pedeſtal muſt be 3 Models; the Column 9¾ Models; and the Ornament muſt have 1⅖ Model, or 1 Model and 57 minutes: ſo the Ornament comes to be one fifth part of the height of the Column, and the Pedeſtal 3¼ of the height of the Column.

The *Corinthian* muſt be 15⅓ Models high; whereof the Pedeſtal muſt be 3⅓ Models, the Column muſt be 10 Models; the Ornament muſt have 2 Models: and ſo the Ornament comes to be one fifth part of the height of the Column, and the Pedeſtal one third of the height of the Column.

II.

If you would make Galleries without the Pedeſtal, you muſt take the height of 9⅜ Models to make the work the more ſtately; ſo you may make one groſs Baſe under of ½ Model: the breadth muſt be 11⅓ Models; the middle inter-Column muſt be 3 Models; the inter-Column of either ſide muſt be 2⅓ Models. But if you will make them of ſix Columns, they muſt be 18⅓ Models, and of eight Columns, they muſt be 25 Models: the height for the lights of the Gate muſt be ⅔ of the height of the Column, with his Architrave and Frieſe, and comes to 4 Models and 59 minutes; and the breadth is ⅔, the height is 2 models and 29½ minutes: The Ornament muſt be one fourth of the height of the lights, the door is 1¼ Model.

III.

The *Tuſcan* Arch muſt be 3 Models and 52 minutes wide; the Pilaſters under to the foot of the Column muſt be 34 minutes; the height to the top of the Impoſt is 5 models and 16 minutes; the Impoſt is 27 minutes high, divided into 8 $\frac{1}{4}$; the ſmall Arch or Bow is 26 minutes divided into 8 parts: the Arch muſt make an half Circle, and ſomewhat more than $\frac{1}{8}$ of the Model; and for the projecture of the Impoſt to diminiſh the ſight. Upon the right and left ſide you muſt make Windows; of the middle Gate the Key-piece is 40 minutes high.

IV.

If you will make the *Tuſcan* Gallery with the Pedeſtal, the whole height muſt be 11 $\frac{1}{4}$ Models, and the breadth 13 $\frac{2}{3}$ models of both the outermoſt Columns diſtance, whereof the middle inter-Column muſt be 3 models 40 minutes; the inter-Columns on the right and the left ſide muſt be 3 models: But if you make the Gallery of 6 Columns, they muſt be 21 $\frac{2}{3}$ models; and if they be of eight Columns, they muſt be 29 $\frac{2}{3}$ models: The height for the lights of the Gate muſt be $\frac{4}{7}$ parts of the under-edge of the Pedeſtal, to the upper edge of the Frieſe, and 6 models and 3 $\frac{2}{3}$ minutes; and the breadth is $\frac{2}{7}$ parts, and is 3 Models and 1 $\frac{1}{6}$ minute: the Ornament muſt be one fourth of the height of the lights of the Door, and is 1 model and 31 minutes, whereof the Architrave muſt be 30 $\frac{1}{3}$ minutes; the Frieſe 24 $\frac{1}{4}$ minutes; the Cornice 36 $\frac{1}{2}$ minutes.

V.

The *Tuſcan* Arch is in diſtance from one Pedeſtal to the other 4 models 20 minutes; the Pilaſter on the foot of the Column is 40 minutes; the height from under the Pedeſtal, to the upper edg of the Impoſt, is 6 models, 12 ½ minutes; the height of the Impoſt is 41 ⅙ minutes; the Arch or Bow is 29 minutes; the Key-piece in the Arch is 50 minutes high; the Arch is higher ½ a Circle and 10 minutes for the projecture of the Impoſt: there the Arch beings, divided into 5 parts, 4 of the ſame are for the lights of the Door of the principal Gate, and is 5 models and 5 minutes; the breadth of the lights is 2 models 32 ½ minutes; the Ornament is 1 model 16 ½ minutes high, whereof the Architrave muh have 25 ½ minutes; the Frieſe 20 $_{1}\frac{5}{12}$ minutes; the Cornice 30 $\frac{7}{12}$ minutes: or divide the Ornament 1 model 16 minutes in fifteen parts, and give five to the Architrave, four the Frieſe, ſix the Cornice.

VI.

The ſixth ſhews the particular members of the *Tuſcan* Column: On the right ſide have we the Pedeſtal and the Baſe: the Pedeſtal is ¼ of the height of the Column, and comes to 1 ⅞ model, which muſt be divided into 5 parts; whereof give the under-*Cimacium* and the Plinth 1 ⅓ of the *Troco*, make 2 ⅔ the upper *Cimacium* 1 part, the upper *Cimacium* is 22 ½ minutes: divided into 5 $_{2}\frac{7}{4}$ parts, the Baſe is ½ a model, and is to be divided into 5 parts. Under the body of the Column is one ſmall liſt of ½ part, making 3 minutes: of the left ſide is the Ornament and the Capital; the Capital is ½ model high, and is to be divided in 10 parts; the like part hath alſo the Aſtragal; the Ornament is ¼ off; the Column high take 1 ⅞ model: this divided in 17 ½ parts, whereof give the Architrave 5 prrts, the Frieſe 6 ⅓ parts; the Corniſh 6 parts; the Architrave 5 parts, is 32 ½ minutes, divided in 8 ⅞ parts; the Frieſe is 41 minutes, with his uppermoſt liſt, which is placed right over the middle of the Column, ſo high as the Frieſe is, and the breadth 30 minutes: after this breadth the Frieſe jets out 7 ½ minutes. Here is alſo after the Frieſe the Liſt of 2 ½ minutes; the Ornament

ment is 39 minutes high, divided in 4 $\frac{7}{8}$ parts, ſo you may this Column, and all its members, with the Impoſt; and alſo all the other four Columns muſt be divided after the ſame manner with minutes; whereof the Column muſt be divided into ſixty minutes, and made after this manner: The Scale is made in the firſt Figure, and the Rule wherewith you divide your parts ſhall be ſet P, and for minutes an M. it may be eaſily underſtood.

VII.

Here followeth the great and ſmall Impoſt with his Arch and Ornament of the Principal Gates; upon the right ſide is the Impoſt and Arch; the Impoſt and Arch of the ſmall Arch ſtands beneath, marked with the Letter K; the Impoſt is 27 minutes high, divided in 8 $\frac{1}{4}$ parts; the like part hath Aſtragal of the Impoſt: the ſmall Arch or Bow is 26 minutes, divided in 8 $\frac{7}{8}$ parts; the height of the great Impoſt is 41 $\frac{1}{6}$ minutes divided in 6 parts; the great Arch or Bow is 29 minutes high, divided in 8 $\frac{7}{8}$ parts. Of the left ſide is the Ornament of the principal Gate, and is 1 model 16 $\frac{1}{2}$ minutes high, whereof cometh 25 $\frac{1}{2}$ minutes: the Architrave divided into 8 $\frac{1}{3}$ parts; the Frieſe is 20 $\frac{1}{2}$ minutes high; the Corniſh is 30 $\frac{1}{2}$ minutes high, divided in 4 $\frac{1}{2}$ parts.

VIII.

Of the DORICK *Order.*

IF you will make the *DORICK* Gallery without the Pedeſtal, then muſt you divide the whole height into 10 models 37 $\frac{1}{2}$ minutes; and to make the Work appear the ſtatelier, you may make one groſs Baſe under of half a model high, and of 4 Columns breadth muſt be 9 models 45 minutes; whereof the middle inter-Column muſt be 2 $\frac{3}{4}$ models; the inter-Columns of either ſide muſt be 1 $\frac{1}{2}$ model; of 4 Columns breadth in the Frieſe muſt be 8 Triglyphs, and 7 Metops: but you will make them of 6 Columns, you muſt divide the breadth into 14 $\frac{3}{4}$ models; and there muſt be in the

the Frieſe of the 6 Columns 12 Triglyphs and 11 Metops: Alſo if you will make the Gallery of eight Columns, then muſt the breadth be 19 ¼ models; the height of the lights of the door is ⅘ of the height of the column with his Architrave and Frieſe, and comes to 5 ⅓ models and the breadth of the light of the door muſt be 2 models 40 minutes: the Ornament muſt be ¼ of the height of the lights of the door; and is 1 model 20 minutes divided in 15 parts; give 5 to the Architrave, 4 the Frieſe, 6 the corniſh; and ſo the Architrave is 26 ⅔ minutes, the Frieſe 21 ⅓ minutes, the Corniſh 32 minutes.

IX.

The *Dorick* Arch muſt be 6 models 15 minutes wide from the middle of one Column, to the middle of the other; and muſt ſtand a little more than half out of the Pilaſter: the Pilaſter is 32 minutes broad under on the Foot of the Column; the Impoſt is 27 ½ minutes high, divided in 8 ⅙ parts: the like part alſo hath the Aſtragal: underneath the height of the Arch or Bow is 27 ¼ minutes divided into 6 ⅓ parts; the Key-piece in the Arch is high 40 minutes; the Arch is higher than half a Circle 10 minutes for the Projecture of the Impoſt; the height to the top of the Impoſt from the Baſe is 6 models 4 ¼ minutes.

X.

The *Dorick* Gallery with the Pedeſtal, the whole height of the Column muſt be 12 models and 53 ½ minutes; and four Columns muſt be 13 ½ models broad, whereof the middle inter-Column muſt be 4 models; the inter-Column of the ſide 2 ¾ models: Upon the four Columns muſt be 11 Triglyphs and 10 Metops; but 6 Columns muſt be 21 models broad, and 17 Triglyphs, and 16 Metops; but 8 Columns muſt be the breadth of 28 ½ models, 23 Triglyphs and 22 Metops: the light of the door is ⅘ of the under edge of the pedeſtal, to the uppermoſt edge of the Frieſe, and is 6 models 57 ¼ minutes; the breadth is 3 models 24 ¼ minutes; the Ornament is high one fourth of the height of the

the

the lights, and $\frac{1}{4}$ which is 1 model $38\frac{1}{6}$ minutes, whereof the Architrave muſt have $32\frac{3}{4}$ minutes, the Frieſe $26\frac{1}{6}$ minutes, the Corniſh $39\frac{1}{4}$ minutes.

XI.

If you would make the *Dorick* Gallery with the Pedeſtal, then muſt the diſtance from one Pilaſter to the other be $5\frac{1}{4}$ models; the height from the under-edge of the Pedeſtal to the upper-edge of the Impoſt, is 7 models 6 minutes; the Impoſt is 50 minutes high; the Arch or Bow 34 minutes; the Corner-piece is 50 minutes; the Arch is higher than a half-Circle $12\frac{1}{2}$ minutes for the projecture of the Impoſt; the height of the lights for the Doors is 5 models and 52 minutes: the breadth of the Lights is two models and 52 minutes: the Ornament is 1 model $23\frac{1}{2}$ minutes high, of which the Architrave hath $27\frac{1}{6}$ minutes; the Frieſe is $22\frac{1}{4}$ minutes; the Corniſh is $33\frac{1}{12}$ minutes: or divide the Ornament in 15 parts, 5 the Architrave, 4 the Frieſe, 6 the Liſt.

XII.

Here is ſhown the particular members of the *Dorick* Columun: On the right ſide we have the Pedeſtal and the Baſe; the Pedeſtal is $3\frac{1}{4}$ of the height of the Column, and comes to 2 models and 16 minutes, divided into 6 parts; whereof give the under-*Cimacium* 2 parts, the body of the Column makes 3 parts; the upper *Cimacium* 1 part, the under-*Cimacium* is 45 minutes: There hath the Plinth 30 minutes; the other members in 15 minutes, divided into $3\frac{3}{4}$ parts; the upper *Cimacium* is $22\frac{1}{2}$ minutes divided in $5\frac{9}{24}$ parts; the Baſe is one half model, divided in $5\frac{1}{3}$ parts; the Liſt upon the Baſe is $\frac{1}{3}$, or 2 minutes, and ſtands off from the Column: on the left ſide is the Ornament and Capital; the Capital is one half model high, divided in $11\frac{7}{12}$ parts; and the like part hath the Aſtragal: the Ornament is $\frac{1}{4}$ of the height of the Column, and is 2 models $7\frac{1}{2}$ minutes divided in $18\frac{1}{6}$; thereof give the Architrave 5 parts, is 35 minutes divided in $7\frac{1}{3}$ parts; the Frieſe $6\frac{1}{3}$ parts, is 45 minutes; the Liſt above the Frieſe $\frac{2}{3}$ is 5 minutes; the Corniſh 6 parts 42 minutes, divided in $6\frac{7}{24}$ parts

parts (the Author gives 6 ¼ parts) that it may come forth more: in the Corniſh muſt come in 10 Dentils, beſides the Grape that hangeth on each ſide.

XIII.

Here is ſhewn the great and ſmall Impoſt with his Arch and Ornament of the Principal Gate of the *Dorick* Order: On the right ſide is the Impoſt and Arch, the Impoſt and the Arch of the ſmaller Bow, ſtanding below, marked with the Letter K: the Impoſt is 27 ½ minutes high, divided in 8 ⅚; a like part hath alſo the Aſtragal of the Impoſt; the ſmall Arch or Bow is 27 ¼ minutes, divided in 6 ⅓ parts; the height of the Impoſt Major or greater Impoſt, is 50 minutes, divided into 9 ⅜ parts; the great Arch or Bow is 34 minutes high, divided in 6 ⅔ parts: On the left ſide is the Ornament of the principal Gate; and is high 1 model 23 ½ minutes, whereof the Architrave hath 27 ⅛ minutes, divided in ſix ⅓ parts; the Frieſe is 22 ¼ minutes; the Corniſh is 33 1 ½ minutes, divided in 4 ¾ parts.

XIV. *Of*

XIV.

Of the IONICK *Order.*

IF you would make the *IONICK* Gallery without the Pedeſtal, then muſt you divide the whole height in 10 ½ models, to make the Work ſhew the more ſtately; and under it make one groſs Baſe of half a model high, and of four Columns breadth muſt be 10 models and 21 minutes; whereof the middle inter-Column muſt have 2 ½ models: the inter-Columns that ſtand on the right and left ſide muſt be 1 model 55 ½ minutes; on the middle of each Column and the Pilaſter muſt be one modilion; in the outermoſt inter-Columns ſhall be 5 ſpaces, in the middlemoſt 6 ſpaces; the four Columns have from the middle of the firſt to the middle of the laſt Column 16 ſpaces and modillions: but if men will make them of 6 Columns, then muſt they divide the breadth in 16 ⅙ models, and there comes on the 6 Columns between the modillions 26 ſpaces; and of eight Columns muſt the breadth be 22 models, and there comes on the 8 Columns 36 ſpaces between the modillions: the height of the lights of the Doors is ⅖ of the height of the Column, with his Architrave and Frieſe above the modillions, and the light comes to 5 models and ⅙; the breadth of the lights of the doors comes to 2 models 48 ½ minutes; the Ornament muſt be ¼ and ½ of the height of the lights of the doors, and is 1 model and 18 minutes, divided in 15 parts; give 5 to the Architrave, 4 the Frieſe, 6 the Corniſh; and the Architrave is 26 ¾ minutes, the Frieſe 20 minutes, the Corniſh 31 ¼ minutes.

XV.

The minor or ſmaller *Ionick* Arch muſt be wide from one Pilaſter to the other 3 models 50 minutes, aud muſt ſtand more than one half out of the Pilaſter; the Pilaſter is 30 minutes under on the breadth of the Column; the Impoſt is high 28 ½ minutes, divided in 9 ½ parts; ſuch like parts hath alſo the Aſtragal there under the height of the Arch or Bow 24 ¼ minutes, divided in 7 ¾ parts; the Key-piece in the Arch is 50 minutes high; the Arch is higher than one half Circle 12 minutes; the height from above the Impoſt to the under-edge of the Baſe, is 6 models and 18 minutes.

XVI.

The *Ionick* Gallery with the Pedeſtal, the whole height of the Column muſt be 13 models, and the 4 Columns breadth muſt be 12 ⅔ models, whereof the middle inter-Column muſt be 3 ⅓ models; the inter-Column on the ſide muſt be 2 ½ models; on the four Columns, from the middle of the firſt, to the middle of the laſt Column, cometh 20 ſpaces and modillions, of 6 Columns breadth is 19 ⅔ models, and hath 32 ſpaces between the modillions; and of 8 Columns breadth is 26 ⅔ models, and hath 44 ſpaces between the modillions: the light of the door is ⅘ from the under-edge of the Pedeſtal of the Column, Architrave and Frieſe, to the upper-edge of the modillions, and is 7 models 17 minutes; the breadth of the door of the lights is 3 models 30 ⅜ minutes; the Ornament muſt be ¼ and ½ of the height of the lights of the doors, and is 1 ⅛ model divided in 15 parts; give 5 to the Architrave, 4 the Frieſe, 6 the Corniſh; the Architrave is 32 ½ minutes, the Frieſe 26 minutes, the Corniſh 39 minutes.

XVII.

If you would make the *Ionick* Arch with the Pedeſtal, then muſt the diſtance from one Pilaſter to the other be 4 models and 50 minutes; the height from the under-edge of the Pedeſtal, to the upper-edge of the Impoſt, is 7 models and 35 minutes the Impoſt is 50 ¼ minutes high; the Arch or Bow 30 ½ minutes; the corner-piece 1 model; the Arch is higher than one half Circle 15 minutes; the height of the lights of the door is 6 models 16 ½ minutes; the breadth of the lights is 3 models and 2 minutes; the Ornament is high 1 model 25 ½ minutes; the Architrave hath 28 ½ minutes; the Frieſe hath 22 ⅘ minutes; the Corniſh 34 ⅓ minutes; the Pilaſter is 35 minutes broad under on the Column.

XVIII.

Here is ſhown the particular members of the *Ionick* Column: On the right ſide you have the Pedeſtal and Baſe; the Pedeſtal is 3 ½ of the height of the Column, and comes to 2 ½ models, which divided into 6 ⅔, thereof give the under-*Cimacium* 2 parts, the Trunk or the Neck 3 ⅓; the upper-*Cimacium* is 1 part, the under-*Cimacium* 45 minutes; thereof give the Plinth 30 minutes, the other 15 minutes, divided in 4 ¼ parts; the upper-*Cimacium* is 22 ½ minutes divided in 6 ⅛ parts; the Baſe is half a model, divided in 5 ⅔ parts; on the Column be two members, divided out with the aforeſaid parts, is 3 ¾ minutes: On the left ſide is the Capital and Ornament; the Capital is 31 ½ minutes high of the under-edge of the Scroll, or more; the Aſtragal on the upper-edge of the *Abaeus* is 18 ⅙ minutes, divided in 7 ⅒ parts: The Ornament is 1 ¼ model high, and is ⅕ of the height of the Column, divided in 15 parts, give the Architrave 5, the Frieſe 4, the Corniſh 6, the Architrave 5 parts and 35 minutes, divided in 8 ¼ parts; the Frieſe is 28 minutes, and muſt have one Liſt on of ¼ part, ſuch like part as the Corniſh hath of 1 ½ minute; the Corniſh is 42 minutes, divided in 7 ½ parts, and ½ twelfth part, or in 7 ½ ¼ parts; but if you are to make great or Royal Work, then commonly is the Frieſe carved: So muſt

the Ornament be between $\frac{1}{4}$ and $\frac{1}{5}$ part of the height of the Columnn, and divided in $16\frac{2}{3}$ parts; give the Architrave 5 parts, the Frieſe $5\frac{2}{3}$ the Corniſh 6 parts.

XIX.

Here is ſhewn the great and ſmall Impoſt with his Arch and Ornament of the principal Gate of the *Ionick* Order: On the right ſide is the Impoſt and Arch, the Impoſt and the Arch of the ſmall Bow, ſtanding beneath the Impoſt, is $28\frac{1}{2}$ minutes high, divided in $9\frac{1}{2}$ parts; ſuch like parts hath alſo the Aſtragal: The Arch or Bow is $24\frac{1}{4}$ minutes, divided in $7\frac{1}{24}$ parts; the great Impoſt, is high $50\frac{1}{4}$ minutes, divided in $8\frac{1}{2}\frac{1}{4}$ parts; the great Arch or Bow is high $30\frac{1}{2}$ minutes, divided in $7\frac{1}{2}$ parts: On the left ſide is the Ornament of the Principal Gate, and is high 1 model $25\frac{1}{2}$ minutes; the Architrave is high $28\frac{1}{2}$ minutes, divided in 7 parts; the Frieſe is high $22\frac{4}{5}$ minutes; the Corniſh is high 34 minutes, divided in $5\frac{1}{2}\frac{7}{4}$ parts; under and above the Frieſe is one fillet of $\frac{1}{4}$ part of the aforeſaid parts.

XX.

Of the ROMAN *Order.*

IF you would make the *ROMAN* Gallery without the Pedeſtal, then muſt you take the height of 11 $\frac{7}{10}$ models, and make one groſs Baſe under of $\frac{1}{3}$ model high; and of 4 Columns breadth muſt be 9 models 40 minutes, whereof the middle inter-Column muſt have 2 $\frac{1}{4}$ models; the inter-Column ſtanding on the right and left ſide, muſt be 1 model 42 $\frac{1}{2}$ minutes: On the middle of each Column muſt come one Modillion; and in the outer inter-Column muſt come 5 ſpaces; in the middle inter-Column 6 ſpaces: the 4 Columns have from the middle of the firſt to the middle of the laſt Column 16 ſpaces and Modillions; but if you make them 6 Columns, then muſt the breadth be 15 $\frac{1}{12}$ models, and there comes on the 6 Columns between the Modillions 26 ſpaces; and of 8 Columns the breadth muſt be 20 $\frac{1}{2}$ models, and there comes on the 8 Columns 36 ſpaces between the Modillions: the height of the lights of the doors is $\frac{4}{7}$ of the height of the Column with his Architrave and Frieſe: from the upper edge of the Modillions, and the lights, is of 6 models 30 minutes; and the breadth of the lights of the doors, of 3 models 25 minutes: The Ornament muſt be 3 $\frac{1}{4}$ parts of 15 parts of the height of the lights, and is 1 model 24 $\frac{1}{2}$ minutes divided in 15 parts; 5 for the Architrave, 4 the Frieſe, 6 the Corniſh; and the Architrave is 27 $\frac{1}{2}$, the Frieſe 22, the Corniſh 33, without the *Gola* and *Orle*, the which next belongs to the Corniſh of the Frontiſpiece.

XXI.

The ſmall *Roman* Arch muſt be from one Pilaſter to the other 4 models and 34 minutes, and muſt ſtand ſomewhat more than half out of the Pilaſter: the Pilaſter is 28 minutes; under on the breadth of the Column, the Impoſt is high 31 $\frac{1}{2}$ minutes, divided in 11 $\frac{1}{12}$ parts: ſuch like parts hath alſo the Aſtragal: there under the height of the Arch or Bow is 28 minutes, divided in 7 $\frac{1}{3}$ parts; the Key-piece in the Arch is high 50 minutes; the Arch is higher than one half-Circle 14 minutes; the height from above the Impoſt, from the under-edge off from the Baſe, is 6 models 54 minutes.

XXII.

The *Roman* Gallery with the Pedeſtal, the Column muſt be 14 models 42 minutes high; and the breadth of 4 Columns muſt be 11 models and 50 minutes; whereof the middle inter-Column muſt be 3 $\frac{1}{3}$ models: the inter-Column on the ſide 2 models 15 minutes: On the 4 Column from the middle of the firſt, to the middle of the laſt Column cometh 20 ſpaces and Modillions; of 6 Columns breadth is 18 models and 20 minutes, and hath 32 ſpaces between the Modillions; and of 8 Columns breadth is 24 models and 50 minutes, and hath 44 ſpaces between the Modillions: the lights of the doors is high $\frac{4}{7}$ from the under edge of the Pedeſtal with his Column; the Architrave and Frieſe to the upper edge of the Modillions, comes to 8 models 12 $\frac{4}{5}$ minutes; the breadth of the lights of the doors is 3 models 53 $\frac{1}{2}$ minutes; the Ornament muſt be $\frac{3}{14}$ and $\frac{1}{4}$; for the Architrave, Frieſe, and Corniſh of the height of the lights of the doors, and comes to 1 model and 53 minutes, divided in 15 parts; give 5 to the Architrave, 4 the Frieſe, 6 the Corniſh; and the Architrave is 37 $\frac{1}{3}$ minutes, the Frieſe 30 $\frac{1}{8}$ minutes, the Corniſh is 45 $\frac{1}{2}$ minutes.

XXIII.

If you make the *Roman* Arch with the Pedeſtal, then muſt the diſtance from one Pilaſter to the other be 5 ½ models; the height from the under-edge of the Pedeſtal to the upper-edge of the Impoſt, is 8 models 42 ½ minutes; the Impoſt is high 55 ½ minutes; the Arch or Bow is 33 minutes; the Corner-piece is 1 model high; the Arch is higher than a half-Circle 17 ½ minutes; the lights of the Doors is 7 models 18 minutes high: the breadth of the Lights is 3 models 26 ½ minutes: the Ornament is high 1 model 24 minutes; thereof the Architrave hath 31 ⅓ minutes; the Frieſe is 25 $\frac{1}{12}$ minutes; the Corniſh is 37 $\frac{7}{12}$ minutes: the Pilaſter under on the Column is 32 ½ minutes broad; the Architrave 31 ⅓ minutes, divided in 7 $\frac{2}{3}$ parts; the Corniſh is 37 $\frac{7}{12}$ minutes, divided in 5 $\frac{23}{24}$ parts; about the Frieſe is one Liſt of ¼ part that goes off from the Frieſe.

XXIV.

Here is ſhewn the particular members of the *Roman* Column: On the right ſide you have the Pedeſtal and Baſe: the Pedeſtal is 3 ¼ of the Column's height, and comes to 3 model, which divided in 8 parts, give thereof the under-*Cimacium* 2 parts, the neck 5 parts, the upper *Cimacium* 1 part, the under *Cimacium* 45 minutes: thereof give the Plinth 30 minutes, the other 15 minutes, divided in 4 ⅙ parts; the neck of the Pedeſtal is high 1 ⅞ model, and the breadth is 1 model 24 minutes; the upper *Cimacium* is 22 ½ minutes, divided in 6 $\frac{4}{5}$ parts; the Baſe is ½ model, divided in 6 parts: On the Column be two members, and are to be divided out with the aforeſaid parts 3 ¾ minutes. On the left ſide is the Capital and Ornament; the Capital is high 1 model and ⅙, or 70 minutes, which divided in 23 ⅓ parts, to make the ground of the Capital, take 1 Square of 1 ¼ model, each ſide of the Square draw one round Circle of $\frac{4}{7}$ of a model, or 51 minutes, or ſo thick as the Column is above, and all the other jettings over the like, as be made in *Corinthi*; but the Scrolls are made after the *Ionick* manner: The Ornament is 1 model 57 minutes,

nutes and is $\frac{1}{5}$ of the height of the Column, divided in 15 parts; thereof give the Architrave 5 parts, the Frieſe 4 parts; the Corniſh 6 parts; the Architrave 5 parts is 39 minutes, divided into 9 parts; the Frieſe 31 $\frac{1}{4}$ minutes; the Corniſh 46 $\frac{3}{4}$ minutes, divided in 7 $\frac{1}{12}$ and a half part, or in 7 $\frac{3}{24}$.

XXV.

Here follows the great and ſmall Impoſt with his Arch and Ornament of the principal Gate of the *Roman* Order: On the right ſide is the Impoſt and Arch; the Impoſt and Arch of the ſmall Bow ſtanding beneath, the Impoſt is high 31 $\frac{1}{3}$ minutes, divided in 11 $\frac{1}{12}$ parts; ſuch like part hath alſo the Aſtragal; the Arch or Bow is high 28 minutes, divided in 7 $\frac{2}{3}$ parts; the great Impoſt is high 55 $\frac{1}{2}$ minutes, divided in 8 $\frac{1}{15}$ parts; the great Arch or Bow is high 33 $\frac{7}{8}$ minutes, divided in 7 $\frac{2}{3}$ parts. On the left ſide is the Ornament of the principal Gate, and is high 1 model 24 minutes; the Architrave is high 31 $\frac{1}{3}$ minutes, divided in 7 $\frac{2}{3}$ parts; the Frieſe is high 25 $\frac{1}{12}$ minutes; the Corniſh is high 37 minutes and $\frac{7}{12}$, divided in 5 $\frac{3}{24}$ parts; under on the Frieſe is one liſt of $\frac{1}{4}$ part and $\frac{1}{2}$ minute.

XXVI.

Of the CORINTHIAN *Order.*

IF you will make the *CORINTHIAN* Gallery without a Pedeſtal, then muſt you divide the whole height in 12 models, and you ſhall place under it one groſs Baſe of one half model high, and of the 4 Columns breadth muſt be 9 models; whereof the middle inter-Column muſt have 2 models: they that ſtand on the right and left ſide muſt have the inter-Column of 1 $\frac{1}{2}$ model; on the middle of each Column and Pilaſter muſt be one modillion; in the outermoſt inter-Column ſhall be 5 ſpaces, and in the middle 6; the 4 Columns have from the middle of the firſt to the middle of the laſt Column 16 ſpaces and modillions: but if you make them of the breadth of 6 Columns, then muſt you divide the breadth into 14 models; and there comes on the 6 Columns between the modillions 26 ſpaces; and of the 8 Columns the breadth muſt be 19 models, and there comes on the 8 Columns 36 ſpaces between the modillions: the height of the Lights of the Doors is $\frac{4}{7}$ of the flat of the Column that come under the ſpaces of the modillions, or in 6 parts under to the Architrave; and the Light is of 6 $\frac{2}{3}$ models; the breadth of the Lights is 3 models and 5 minutes; the Ornament muſt be $\frac{1}{5}$ of the height of the Light, and divided likewiſe in 15 of the like parts; give 5 to the Architrave, 4 the Frieſe, and 6 the Corniſh; and the Architrave is 26 $\frac{2}{3}$ minutes, the Frieſe 21 $\frac{1}{3}$ minutes, the Corniſh 32 minutes: So the whole Ornament is 1 model 20 minutes.

XXVII.

The ſmall *Corinthian* Arch muſt be 4 models 8 minutes wide from one Pilaſter to the other, the Pilaſter is 26 minutes broad under on the Column, the Impoſt is 33 $\frac{1}{3}$ minutes high, divided in 7 $\frac{2}{24}$ parts: the height of the Arch or Bow is 25 minutes, divided in 9 $\frac{1}{12}$ parts; the Key-piece in the Arch is 50 minutes high; the Arch is higher than one half-Circle 16 minutes; the height from above the Impoſt to the under-edge off of the Baſe, 7 models and 20 minutes.

XXVIII.

The *Corinthian* Gallery with the Pedeſtal, the Column muſt be 15 $\frac{1}{3}$ models high; and the breadth of 4 Columns 11 models; whereof the middle inter-Column muſt be 3 models; the inter-Column on the ſide muſt be 2 models: On the 4 Columns from the middle of the firſt, to the middle of the laſt cometh 20 ſpaces and Modillions, of 6 Columns breadth is 17 models, and hath 32 ſpaces between the Modillions; and of the breadth of 8 Columns is 23 models, and hath 44 ſpaces between the Modillions: the Light of the door is $\frac{4}{7}$ of the under-edge of the Pedeſtal with his Column to the upper-edge of the Modillion, and is 8 models 32 $\frac{1}{2}$ minutes high; the breadth of the Lights of the door is 3 models 59 $\frac{1}{8}$ minutes; the Ornament muſt be $\frac{1}{5}$ of the height of the Lights of the doors, and is 1 model 42 $\frac{2}{5}$ minutes, divided into 15 parts; thereof the Architrave hath 5 parts, and the Frieſe 4, and the Corniſh 6; and the Architrave is 34 minutes, the Frieſe 27 minutes, the Corniſh is 41 minutes.

XXIX.

If you will make the *Corinthian* Arch with the Pedeſtal, then muſt the diſtance from one Pilaſter to the other be 5 models; the height from the under-edge of the Pedeſtal, to the upper-edge of the Impoſt, is 9 $\frac{1}{2}$ models; the Impoſt is high 55 $\frac{1}{12}$ minutes; the bigneſs of the Arch muſt be $\frac{1}{10}$ of the breadth, like the foregoing Arch, and is 30 minutes; the Corner-piece 1 model; the Arch is higher than one half Circle 20 minutes; the height of the Lights of the door is 8 models, and the breadth of the Lights of the door is 3 models 45 minutes, the Ornament is high 1 model 36 minutes; the Architrave hath 32 minutes, divided in 9 $\frac{5}{6}$ parts; the Frieſe is 25 $\frac{1}{2}$ minutes, and hath one liſt of $\frac{1}{5}$ part under the Corniſh; the Corniſh is 38 $\frac{1}{2}$ minutes, divided in 5 $\frac{3}{5}$ parts; the Pilaſter under on the Column is 30 minutes broad.

XXX.

Here followeth the particular members of the *Corinthian* Column: On the right ſide you have the Pedeſtal and Baſe; the Pedeſtal is $\frac{1}{3}$ of the heighth of the Column, and is 3 $\frac{1}{3}$ models, which divided in $\frac{7}{8}$ 8 parts, thereof give the under-*Cimacium* 2 parts, the Neck of the Pedeſtal 5 $\frac{7}{8}$ parts; the upper-*Cimacium* 1 part, the under-*Cimacium* is 45 minutes; thereof give the Plinth 30 minutes, the other member is 15 minutes, divided in 4 $\frac{1}{8}$ parts; on the *Cimacium* is alſo two members, one *Torus* of $\frac{3}{4}$ and one liſt of $\frac{1}{3}$: of the aforeſaid parts, the upper-*Cimacium* is 22 $\frac{1}{2}$ minutes, divided in 7 $\frac{3}{8}$ parts, there under is one liſt of $\frac{3}{8}$ parts goes off from the neck; the Baſe is one half model, divided in 6 $\frac{1}{3}$ parts, and muſt go off the ſhaft of the Column $\frac{1}{4}$ part and a $\frac{1}{2}$ part: On the left ſide is the Ornament and the Capital; the Capital is high 1 model $\frac{1}{6}$ or 70 minutes, which divided in 23 $\frac{1}{3}$ parts; the Aſtragal is 1 $\frac{2}{5}$ of the parts of the Capital: The Ornament is $\frac{1}{5}$ part of the Columns height, and is 2 models; this divided in 15 parts, give 5 the Architrave,

4 the Frieſe, 6 the Corniſh; the Architrave is 40 minutes divided in 12 $\frac{1}{12}$ parts; the Frieſe is 32 minutes, the Corniſh is 48 minutes, divided in 7 $\frac{3}{12}$. So much it projects, and is juſt 7 $\frac{1}{3}$ parts.

XXXI.

Here followeth the great and ſmall Impoſt with his Arch and Ornament of the principal Gate of the *Corinthian* Order: On the right ſide is the Impoſt and Arch, the Impoſt and Arch of the ſmall Bow ſtands marked with the Letter K; the Impoſt is high 33 $\frac{1}{3}$ minutes, divided in 7 $\frac{2}{24}$ parts; The ſmall Arch or Bow is high 25 minutes, divided in 9 $\frac{1}{12}$ parts; the height of the great Impoſt is 55 $\frac{7}{12}$ minutes, divided in 7 $\frac{3}{12}$; the great Arch or Bow is 30 minutes, divided in 9 $\frac{1}{12}$ parts: On the left ſide is the Ornament of the principal Gate, and is high 1 model 36 minutes; thereof the Architrave hath 32 minutes, divided in 9 $\frac{5}{6}$ parts; the Frieſe is 25 minutes; the Corniſh 38 $\frac{1}{2}$ minutes, divided in 5 $\frac{2}{5}$ parts.

XXXII.

Here is ſhewn how you ſhall leſſen the Columns; the *Tuſcan* Column is $\frac{1}{4}$ ſmaller above than beneath; the *Dorick* $\frac{1}{7}$; the *Ionick* $\frac{1}{6}$; the *Roman* or *Compoſita* is $\frac{1}{7}$; the *Corinthian* is $\frac{1}{8}$: which are to be divided in 12 equal parts, 3 of which muſt go up in a ſtraight line in the *Tuſcan* Column; of the *Ionick* 3 $\frac{1}{2}$ goes up in a ſtraight line, and the *Corinthian* 4 parts goes ſtraight up; of the *Dorick*, and *Roman* or *Compoſita*, is a meaſure between the *Tuſcan* and *Ionick*, and between the *Ionick* and *Corinthian*; the other leſſenings men may eaſily ſee how they ſhall make them in the Figure here ſet down.

XXXIII. Shews

XXXIII.

Shews how you may make the *Corinthian* Baſe, and the upper and under-*Cimacium*, with his Diagonal lines for inlarging the Projecture.

XXXIV.

Sheweth how the *Corinthian* Ornament is to be made, as the Architrave, Frieſe and Cornice with his Diagonal lines for inlarging the Projecture, eaſie to be underſtood; ſo draw one Diagonal line after a perfect quadrate of the whole Projecture of the Cornice; and in theſe Diagonal lines muſt all the Perpendicular lines come for the members that are in the Projecture; and this outermoſt end muſt we then after this meaſure draw with the ſaid Diagonal, ſo that in the croſſing, you make right Angels, that the height of the drawing members be parralel near to the Diagonal.

XXXV.

This is the Ornament of the *Corinthian* Order of the principal Gate, and is 1 model 36 minutes high, (as before is declared) thereof the Architrave hath 32 minutes; the Frieſe 25 $\frac{1}{2}$ minutes; the Corniſh 38 $\frac{1}{2}$ minutes; the Architrave 32 minutes, divided into 9 $\frac{1}{6}$ parts; thereof ſticks farther out as the outer-edge of the Door-ſtile 7 $\frac{2}{3}$ parts, or 8 $\frac{1}{2}$ minutes farther for Corniſhing; and let the ears of the Architrave be 17 parts long; of the fore-given parts, or 55 $\frac{1}{2}$ minutes to underneath, beſides all other the Corniſhing of the Architraves, as you may ſee in the Figure; the Frieſe is 25 $\frac{1}{2}$ minutes, divided in 7 parts for making the *Voluta* or Scroll, and draw one line up: the fourth part, or 14 $\frac{1}{2}$ minutes frome above off right Parallels; ſo there remains 3 parts or 11 minutes for the ſtanding out beneath, and the eye of the Scroll is $\frac{1}{7}$ part, or 3 minutes and $\frac{2}{4}$ of the

the height of the Frieſe; and draw a Line perpendicular from above to the under-edge of the ear of the Architrave, and where the lines cut croſs each other, here is the middle of your eye: ſtrike out the croſs 4 parts 16 ½ minutes near to the outſide, and 3 ½ parts, or 12 ½ minutes to the inſide, and draw your Scroll then after this manner here drawn: the Scroll or *Voluta* beneath is ⅕ part 5 ½ minutes ſmaller, as the upper-Scrol is, and is high 20 minutes, and the breadth 12 ½ minutes: divide the height in 8 parts, and draw a Parallel-line of 4 ½ parts, or 11 ¼ minutes from beneath to above, and there the Parallel-line cut croſs the Perpendicular is the middle of the eye, ſtrikes out croſs 3 ½ parts, or 8 ¾ minutes to above, and 4 parts or 10 minutes to the outſide; and there remains over 5 parts, or 12 ½ minutes to the inſide; farther all that belongs to it may you in the Figure here plainly ſee; as for the breadth of the Scroll is 2 ⅝ parts of the Cornices given parts, or 19 minutes; the other members before may be ſeen in the Figure.

XXXVI.

Here is ſhown two Chimney-mantils, with their Profile.

XXXVII.

Here is ſhown the ground of the Building of the Lord *Strozzi* ſtanding at *Florence*, the like is deſcribed in the Authors third Book in the ſeventh Chapter.

XXXVIII.

The half of the Building on the ground to be ſeen inwards of the Building of the Lord *Strozzi*.

XXXIX. The

XXXIX.

The other half with the up-riſing to be ſeen with the foreſide of the foreſaid Building.

XL.

Here we have the under-ſide of the Cornice of all the five Columns; *A* of the *Tuſcan*, *B* of the *Dorick*, *C* the *Ionick*, *D* the *Roman* or *Compoſita*, *E* the *Corinthian*.



FINIS.

Advertiſement.

THe Deſcription and Uſe of the Carpenters Rule, together with the Uſe of the Line of Numbers, and its application in meaſuring all Superficies and Solids; Gauging with the uſe of a ſliding Rule, and the Joynt-Rule, by *John Browne*, and ſold by *William Fiſher*.